

## Appendix

**Experiment 1 Story Versions****Version 1: Positive Valence, DADA, Wagon to Dog**

**Training story.** Let’s play a detective game! In this game, you are trying to fill in the missing part of a story. Let’s try one!

You’ll meet two kids. For this story, the kids are Casey and Terry. Casey said something, and you’ll try to figure out what Casey said based on the clues that follow.

So, next in the story, Terry pushed Casey down the slide. Two adults saw the whole thing happen: They heard what Casey said and they saw Terry push Casey down the slide. The adults were asked: Do you think that Casey wanted to be pushed down the slide, based on what Casey said? One adult said, “Yes, I’m really sure that Casey wanted to be pushed down the slide!” The other adult agreed and said, “Yes, I’m really sure that Casey wanted to be pushed down the slide!”

Check 1: Can you remind me, what did the first adult say? [child responds] So the first adult said, “Yes, I’m really sure Casey wanted to be pushed down the slide.”

Check 2: Can you remind me, what did the second adult say? [child responds] So the second adult said, “Yes, I’m really sure Casey wanted to be pushed down the slide.”

Test: So based on what the adults said, let’s try to figure out what Casey said right before Terry pushed Casey down the slide. Remember, the adults agreed with each other that they were really sure that Casey wanted to be pushed down the slide. Which of these three things did Casey say right before Terry pushed Casey down the slide?

1. “Please push me down the slide.” (direct request)
2. “I go down slides sometimes.” (ambiguous utterance)
3. “The slide is green.” (random statement)

(No feedback was provided.) That was practice. We will play the official guessing game four times altogether. Let’s do the first one!

**Story 1: Wagon, Disagreement.** Sam and Robin were at the park. Sam said something. Then Robin painted Sam’s wagon orange. Let’s try to figure out what Sam said!

Two adults saw the whole thing happen: They heard what Sam said and they saw Robin paint Sam’s wagon orange. The adults were asked: Do you think that Sam wanted Robin to paint the wagon orange, based on what Sam said?

One adult said, “Yes, I’m really sure that Sam wanted Robin to paint the wagon orange.” The other adult disagreed and said, “No, I’m really sure that Sam did *not* want Robin to paint the wagon orange.”

Check 1: Can you remind me, what did the first adult say? [child responds] So the first adult said, “Yes, I’m really sure that Sam wanted Robin to paint the wagon orange.”

Check 2: Can you remind me, what did the second adult say? [child responds] So the second adult said, “No, I’m really sure that Sam did *not* want Robin to paint the wagon orange.”

Test: So based on what the adults said, let’s try to figure out what Sam said right before Robin painted Sam’s wagon orange. Remember, the adults disagreed with each other: One adult was really sure that Sam wanted Robin to paint the wagon orange, while the other adult was really sure that Sam did *not* want Robin to paint the wagon orange. Which of these three things did Sam say right before Robin painted Sam’s wagon orange?

1. “Please paint my wagon orange.” (direct request)
2. “My wagon would look better in a new color.” (ambiguous utterance)
3. “My wagon has four wheels.” (random statement)

**Story 2: Tower, Agreement.** Cody and Morgan were in the play room. Cody said something. Then Morgan finished Cody’s block tower. Let’s try to figure out what Cody said!

Two adults saw the whole thing happen: They heard what Cody said and they saw Morgan finish Cody’s block tower. The adults were asked: Do you think that Cody wanted Morgan to finish the block tower, based on what Cody said?

One adult said, “Yes, I’m really sure that Cody wanted Morgan to finish the block tower.” The other adult agreed and said, “Yes, I’m really sure that Cody wanted Morgan to finish the block tower.”

Check 1: Can you remind me, what did the first adult say? [child responds] So the first adult said, “Yes, I’m really sure that Cody wanted Morgan to finish the block tower!”

Check 2: Can you remind me, what did the second adult say? [child responds] So the second adult said, “Yes, I’m really sure that Cody wanted Morgan to finish the block tower!”

Test: So based on what the adults said, let’s try to figure out what Cody said right before Morgan finished Cody’s block tower. Remember, the adults agreed with each other that they were really sure that Cody wanted Morgan to finish the block tower. Which of these three things did Cody say right before Morgan finished Cody’s block tower?

1. “Please finish my block tower.” (direct request)
2. “My block tower is almost finished.” (ambiguous utterance)
3. “My tower is made of blocks.” (random statement)

**Story 3: Snowman, Disagreement.** Jordan and Avery were in the art room. Jordan said something. Then Avery drew a hat on Jordan’s snowman. Let’s try to figure out what Jordan said!

Two adults saw the whole thing happen: They heard what Jordan said and they saw Avery draw a hat on Jordan's snowman. The adults were asked: Do you think that Jordan wanted Avery to draw a hat on the snowman, based on what Jordan said?

One adult said, "Yes, I'm really sure that Jordan wanted Avery to draw a hat on the snowman." The other adult disagreed and said, "No, I'm really sure that Jordan did *not* want Avery to draw a hat on the snowman."

Check 1: Can you remind me, what did the first adult say? [child responds] So the first adult said, "Yes, I'm really sure that Jordan wanted Avery to draw the hat on the snowman!"

Check 2: Can you remind me, what did the second adult say? [child responds] So the second adult said, "No, I'm really sure that Jordan did *not* want Avery to draw a hat on the snowman!"

Test: So based on what the adults said, let's try to figure out what Jordan said right before Avery drew a hat on Jordan's snowman. Remember, the adults disagreed with each other: One adult was really sure that Jordan wanted Avery to draw a hat on the snowman, while the other adult was really sure that Jordan did *not* want Avery to draw a hat on the snowman. Which of these three things did Jordan say right before Avery drew a hat on Jordan's snowman?

1. "Please draw a hat on my snowman." (direct request)
2. "My snowman would look better if it was wearing something." (ambiguous utterance)
3. "My snowman has buttons." (random statement)

**Story 4: Dog, Agreement.** Bailey and Devin were at the dog park. Bailey said something. Then Devin fed Bailey's dog three treats. Let's try to figure out what Bailey said!

Two adults saw the whole thing happen: They heard what Bailey said and they saw Devin feed Bailey's dog three treats. The adults were asked: Do you think that Bailey wanted Devin to feed the dog three treats, based on what Bailey said?

One adult said, "Yes, I'm really sure that Bailey wanted Devin to feed the dog three treats." The other adult agreed and said, "Yes, I'm really sure that Bailey wanted Devin to feed the dog three treats."

Check 1: Can you remind me, what did the first adult say? [child responds] So the first adult said, "Yes, I'm really sure that Bailey wanted Devin to feed the dog three treats!"

Check 2: Can you remind me, what did the second adult say? [child responds] So the second adult said, "Yes, I'm really sure that Bailey wanted Devin to feed the dog three treats!"

Test: So based on what the adults said, let's try to figure out what Bailey said right

before Devin feed Bailey’s dog three treats. Remember, the adults agreed with each other that they were really sure that Bailey wanted Devin to the dog three treats. Which of these three things did Bailey say right before Devin feed Bailey’s dog three treats?

1. “Please feed my dog three treats.” (direct request)
2. “My dog eats so many treats.” (ambiguous utterance)
3. “My dog has cute ears.” (random statement)

### **Version 2: Positive Valence, ADAD, Dog to Wagon**

**Training Story.** Let’s play a detective game! In this game, you are trying to fill in the missing part of a story. Let’s try one!

You’ll meet two kids. For this story, the kids are Casey and Terry. Casey said something, and you’ll try to figure out what Casey said based on the clues that follow.

So, next in the story, Terry pushed Casey down the slide. Two adults saw the whole thing happen: They heard what Casey said and they saw Terry push Casey down the slide. The adults were asked: Do you think that Casey wanted to be pushed down the slide, based on what Casey said? One adult said, “Yes, I’m really sure that Casey wanted to be pushed down the slide!” The other adult agreed and said, “Yes, I’m really sure that Casey wanted to be pushed down the slide!”

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Check 2: Can you remind me, what did the second adult say? [child responds] So the second adult said, “Yes, I’m really sure Casey wanted to be pushed down the slide.”

Test: So based on what the adults said, let’s try to figure out what Casey said right before Terry pushed Casey down the slide. Remember, the adults agreed with each other that they were really sure that Casey wanted to be pushed down the slide. Which of these three things did Casey say right before Terry pushed Casey down the slide?

1. “Please push me down the slide.” (direct request)
2. “I go down slides sometimes.” (ambiguous utterance)
3. “The slide is green.” (random statement)

(No feedback was provided.) That was practice. We will play the official guessing game four times altogether. Let’s do the first one!

**Story 1: Dog, Agreement.** Bailey and Devin were at the dog park. Bailey said something. Then Devin fed Bailey’s dog three treats. Let’s try to figure out what Bailey said!

Two adults saw the whole thing happen: They heard what Bailey said and they saw Devin feed Bailey’s dog three treats. The adults were asked: Do you think that Bailey wanted Devin to feed the dog three treats, based on what Bailey said?

One adult said, “Yes, I’m really sure that Bailey wanted Devin to feed the dog three treats.” The other adult agreed and said, “Yes, I’m really sure that Bailey wanted Devin to feed the dog three treats.”

Check 1: Can you remind me, what did the first adult say? [child responds] So the first adult said, “Yes, I’m really sure that Bailey wanted Devin to feed the dog three treats!”

Check 2: Can you remind me, what did the second adult say? [child responds] So the second adult said, “Yes, I’m really sure that Bailey wanted Devin to feed the dog three treats!”

Test: So based on what the adults said, let’s try to figure out what Bailey said right before Devin feed Bailey’s dog three treats. Remember, the adults agreed with each other that they were really sure that Bailey wanted Devin to the dog three treats. Which of these three things did Bailey say right before Devin feed Bailey’s dog three treats?

1. “Please feed my dog three treats.” (direct request)
2. “My dog eats so many treats.” (ambiguous utterance)
3. “My dog has cute ears.” (random statement)

**Story 2: Snowman, Disagreement.** Jordan and Avery were in the art room. Jordan said something. Then Avery drew a hat on Jordan’s snowman. Let’s try to figure out what Jordan said!

Two adults saw the whole thing happen: They heard what Jordan said and they saw Avery draw a hat on Jordan’s snowman. The adults were asked: Do you think that Jordan wanted Avery to draw a hat on the snowman, based on what Jordan said?

One adult said, “Yes, I’m really sure that Jordan wanted Avery to draw a hat on the snowman.” The other adult disagreed and said, “No, I’m really sure that Jordan did *not* want Avery to draw a hat on the snowman.”

Check 1: Can you remind me, what did the first adult say? [child responds] So the first adult said, “Yes, I’m really sure that Jordan wanted Avery to draw the hat on the snowman!”

Check 2: Can you remind me, what did the second adult say? [child responds] So the second adult said, “No, I’m really sure that Jordan did *not* want Avery to draw a hat on the snowman!”

Test: So based on what the adults said, let’s try to figure out what Jordan said right before Avery drew a hat on Jordan’s snowman. Remember, the adults disagreed with each other: One adult was really sure that Jordan wanted Avery to draw a hat on the snowman, while the other adult was really sure that Jordan did *not* want Avery to draw a hat on the snowman. Which of these three things did Jordan say right before Avery drew a hat on Jordan’s snowman?

1. “Please draw a hat on my snowman.” (direct request)

2. “My snowman would look better if it was wearing something.” (ambiguous utterance)

3. “My snowman has buttons.” (random statement)

**Story 3: Tower, Agreement.** Cody and Morgan were in the play room. Cody said something. Then Morgan finished Cody’s block tower. Let’s try to figure out what Cody said!

Two adults saw the whole thing happen: They heard what Cody said and they saw Morgan finish Cody’s block tower. The adults were asked: Do you think that Cody wanted Morgan to finish the block tower, based on what Cody said?

One adult said, “Yes, I’m really sure that Cody wanted Morgan to finish the block tower.” The other adult agreed and said, “Yes, I’m really sure that Cody wanted Morgan to finish the block tower.”

Check 1: Can you remind me, what did the first adult say? [child responds] So the first adult said, “Yes, I’m really sure that Cody wanted Morgan to finish the block tower!”

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Test: So based on what the adults said, let’s try to figure out what Cody said right before Morgan finished Cody’s block tower. Remember, the adults agreed with each other that they were really sure that Cody wanted Morgan to finish the block tower. Which of these three things did Cody say right before Morgan finished Cody’s block tower?

1. “Please finish my block tower.” (direct request)

2. “My block tower is almost finished.” (ambiguous utterance)

3. “My tower is made of blocks.” (random statement)

**Story 4: Wagon, Disagreement.** Sam and Robin were at the park. Sam said something. Then Robin painted Sam’s wagon orange. Let’s try to figure out what Sam said!

Two adults saw the whole thing happen: They heard what Sam said and they saw Robin paint Sam’s wagon orange. The adults were asked: Do you think that Sam wanted Robin to paint the wagon orange, based on what Sam said?

One adult said, “Yes, I’m really sure that Sam wanted Robin to paint the wagon orange.” The other adult disagreed and said, “No, I’m really sure that Sam did *not* want Robin to paint the wagon orange.”

Check 1: Can you remind me, what did the first adult say? [child responds] So the first adult said, “Yes, I’m really sure that Sam wanted Robin to paint the wagon orange.”

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1. “Please paint my wagon orange.” (direct request)
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Test: So based on what the adults said, let’s try to figure out what Casey said right before Terry pushed Casey down the slide. Remember, the adults agreed with each other that they were really sure that Casey wanted to be pushed down the slide. Which of these three things did Casey say right before Terry pushed Casey down the slide?

1. “Please push me down the slide.” (direct request)
2. “I go down slides sometimes.” (ambiguous utterance)
3. “The slide is green.” (random statement)

(No feedback was provided.) That was practice. We will play the official guessing game four times altogether. Let’s do the first one!

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1. "Please paint my wagon orange." (direct request)
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**Story 2: Tower, Disagreement.** Cody and Morgan were in the play room. Cody said something. Then Morgan finished Cody's block tower. Let's try to figure out what Cody said!

Two adults saw the whole thing happen: They heard what Cody said and they saw Morgan finish Cody's block tower. The adults were asked: Do you think that Cody wanted Morgan to finish the block tower, based on what Cody said?

One adult said, "Yes, I'm really sure that Cody wanted Morgan to finish the block tower." The other adult disagreed and said, "No, I'm really sure that Cody did *not* want Morgan to finish the block tower."

Check 1: Can you remind me, what did the first adult say? [child responds] So the first adult said, "Yes, I'm really sure that Cody did want Morgan to finish the block tower!"

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Test: So based on what the adults said, let's try to figure out what Cody said right before Morgan finished Cody's block tower. Remember, the adults disagreed with each other: one adult was really sure that Cody wanted Morgan to finish the block tower, while the other adult was really sure that Cody did *not* want Morgan to finish the block tower. Which of these three things did Cody say right before Morgan finished Cody's block tower?

1. "Please finish my block tower." (direct request)



2. “My block tower is almost finished.” (ambiguous utterance)
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**Story 3: Snowman, Agreement.** Jordan and Avery were in the art room. Jordan said something. Then Avery drew a hat on Jordan’s snowman. Let’s try to figure out what Jordan said!

Two adults saw the whole thing happen: They heard what Jordan said and they saw Avery draw a hat on Jordan’s snowman. The adults were asked: Do you think that Jordan wanted Avery to draw a hat on the snowman, based on what Jordan said?

One adult said, “Yes, I’m really sure that Jordan wanted Avery to draw a hat on the snowman.” The other adult agreed and said, “Yes, I’m really sure that Jordan wanted Avery to draw a hat on the snowman.”

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1. “Please draw a hat on my snowman.” (direct request)
2. “My snowman would look better if it was wearing something.” (ambiguous utterance)
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**Story 4: Dog, Disagreement.** Bailey and Devin were at the dog park. Bailey said something. Then Devin fed Bailey’s dog three treats. Let’s try to figure out what Bailey said!

Two adults saw the whole thing happen: They heard what Bailey said and they saw Devin feed Bailey’s dog three treats. The adults were asked: Do you think that Bailey wanted Devin to feed the dog three treats, based on what Bailey said?

One adult said, “Yes, I’m really sure that Bailey wanted Devin to feed the dog three treats.” The other adult disagreed and said, “No, I’m really sure that Bailey did *not* want Devin to feed the dog three treats.”

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the second adult said, “No, I’m really sure that Bailey did *not* want Devin to feed the dog three treats!”

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1. “Please feed my dog three treats.” (direct request)
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#### **Version 4: Positive Valence, DADA, Dog to Wagon**

**Training story.** Let’s play a detective game! In this game, you are trying to fill in the missing part of a story. Let’s try one!

You’ll meet two kids. For this story, the kids are Casey and Terry. Casey said something, and you’ll try to figure out what Casey said based on the clues that follow.

So, next in the story, Terry pushed Casey down the slide. Two adults saw the whole thing happen: They heard what Casey said and they saw Terry push Casey down the slide. The adults were asked: Do you think that Casey wanted to be pushed down the slide, based on what Casey said? One adult said, “Yes, I’m really sure that Casey wanted to be pushed down the slide!” The other adult agreed and said, “Yes, I’m really sure that Casey wanted to be pushed down the slide!”

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(No feedback was provided.) That was practice. We will play the official guessing game four times altogether. Let’s do the first one!

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Test: So based on what the adults said, let's try to figure out what Bailey said right before Devin fed Bailey's dog three treats. Remember, the adults disagreed with each other: one adult was really sure that Bailey wanted Devin to feed the dog three treats, while the other adult was really sure that Bailey did *not* want Devin to feed the dog three treats. Which of these three things did Bailey say right before Devin fed Bailey's dog three treats?

1. "Please feed my dog three treats." (direct request)
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other that they were really sure that Jordan wanted Avery to draw a hat on the snowman. Which of these three things did Jordan say before Avery drew a hat on Jordan's snowman?

1. "Please draw a hat on my snowman." (direct request)
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One adult said, "Yes, I'm really sure that Cody wanted Morgan to finish the block tower." The other adult disagreed and said, "No, I'm really sure that Cody did *not* want Morgan to finish the block tower."

Check 1: Can you remind me, what did the first adult say? [child responds] So the first adult said, "Yes, I'm really sure that Cody did want Morgan to finish the block tower!"

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1. “Please paint my wagon orange.” (direct request)
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### **Version 5: Negative Valence, DADA, Wagon to Dog**

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You’ll meet two kids. For this story, the kids are Casey and Terry. Casey said something, and you’ll try to figure out what Casey said based on the clues that follow.

So, next in the story, Terry pushed Casey down the slide. Two adults saw the whole thing happen: They heard what Casey said and they saw Terry push Casey down the slide. The adults were asked: Do you think that Casey wanted to be pushed down the slide, based on what Casey said? One adult said, “No, I’m really sure that Casey did *not* want to be pushed down the slide!” The other adult agreed and said, “No, I’m really sure that Casey did *not* want to be pushed down the slide!”

Check 1: Can you remind me, what did the first adult say? [child responds] So the first adult said, “No, I’m really sure that Casey did *not* want to be pushed down the slide.”

Check 2: Can you remind me, what did the second adult say? [child responds] So the second adult said, “No, I’m really sure that Casey did *not* want to be pushed down the slide.”

Test: So based on what the adults said, let’s try to figure out what Casey said right before Terry pushed Casey down the slide. Remember, the adults agreed with each other that they were really sure that Casey did *not* want to be pushed down the slide. Which of these three things did Casey say right before Terry pushed Casey down the slide?

1. “Please do not push me down the slide.” (direct request)
2. “I go down slides sometimes.” (ambiguous utterance)
3. “The slide is green.” (random statement)

(No feedback was provided.) That was practice. We will play the official guessing game four times altogether. Let’s do the first one!

**Story 1: Wagon, Disagreement.** Sam and Robin were at the park. Sam said something. Then Robin painted Sam’s wagon orange. Let’s try to figure out what Sam said!

Two adults saw the whole thing happen: They heard what Sam said and they saw Robin paint Sam’s wagon orange. The adults were asked: Do you think that Sam wanted Robin to paint the wagon orange, based on what Sam said?

One adult said, “Yes, I’m really sure that Sam wanted Robin to paint the wagon orange.” The other adult disagreed and said, “No, I’m really sure that Sam did *not* want Robin to paint the wagon orange.”

Check 1: Can you remind me, what did the first adult say? [child responds] So the first adult said, “Yes, I’m really sure that Sam wanted Robin to paint the wagon orange.”

Check 2: Can you remind me, what did the second adult say? [child responds] So the second adult said, “No, I’m really sure that Sam did *not* want Robin to paint the wagon orange.”

Test: So based on what the adults said, let’s try to figure out what Sam said right before Robin painted Sam’s wagon orange. Remember, the adults disagreed with each other: One adult was really sure that Sam wanted Robin to paint the wagon orange, while the other adult was really sure that Sam did *not* want Robin to paint the wagon orange. Which of these three things did Sam say right before Robin painted Sam’s wagon orange?

1. “Please do not paint my wagon.” (direct request)
2. “My wagon would look better in a new color.” (ambiguous utterance)
3. “My wagon has four wheels.” (random statement)

**Story 2: Tower, Agreement.** Cody and Morgan were in the play room. Cody said something. Then Morgan finished Cody’s block tower. Let’s try to figure out what Cody said!

Two adults saw the whole thing happen: They heard what Cody said and they saw Morgan finish Cody’s block tower. The adults were asked: Do you think that Cody wanted Morgan to finish the block tower, based on what Cody said?

One adult said, “No, I’m really sure that Cody did *not* want Morgan to finish the block tower.” The other adult agreed and said, “No, I’m really sure that Cody did *not* want Morgan to finish the block tower.”

Check 1: Can you remind me, what did the first adult say? [child responds] So the first adult said, “No, I’m really sure that Cody did *not* want Morgan to finish the block tower!”

Check 2: Can you remind me, what did the second adult say? [child responds] So the second adult said, “No, I’m really sure that Cody did *not* want Morgan to finish the block tower!”

Test: So based on what the adults said, let's try to figure out what Cody said right before Morgan finished Cody's block tower. Remember, the adults agreed with each other that they were really sure that Cody did *not* want Morgan to finish the block tower. Which of these three things did Cody say right before Morgan finished Cody's block tower?

1. "Please do not finish my block tower." (direct request)
2. "My block tower is almost finished." (ambiguous utterance)
3. "My tower is made of blocks." (random statement)

**Story 3: Snowman, Disagreement.** Jordan and Avery were in the art room. Jordan said something. Then Avery drew a hat on Jordan's snowman. Let's try to figure out what Jordan said!

Two adults saw the whole thing happen: They heard what Jordan said and they saw Avery draw a hat on Jordan's snowman. The adults were asked: Do you think that Jordan wanted Avery to draw a hat on the snowman, based on what Jordan said?

One adult said, "Yes, I'm really sure that Jordan wanted Avery to draw a hat on the snowman." The other adult disagreed and said, "No, I'm really sure that Jordan did *not* want Avery to draw a hat on the snowman."

Check 1: Can you remind me, what did the first adult say? [child responds] So the first adult said, "Yes, I'm really sure that Jordan wanted Avery to draw the hat on the snowman!"

Check 2: Can you remind me, what did the second adult say? [child responds] So the second adult said, "No, I'm really sure that Jordan did *not* want Avery to draw a hat on the snowman!"

Test: So based on what the adults said, let's try to figure out what Jordan said right before Avery drew a hat on Jordan's snowman. Remember, the adults disagreed with each other: One adult was really sure that Jordan wanted Avery to draw a hat on the snowman, while the other adult was really sure that Jordan did *not* want Avery to draw a hat on the snowman. Which of these three things did Jordan say right before Avery drew a hat on Jordan's snowman?

1. "Please do not draw on my snowman." (direct request)
2. "My snowman would look better if it was wearing something." (ambiguous utterance)
3. "My snowman has buttons." (random statement)

**Story 4: Dog, Agreement.** Bailey and Devin were at the dog park. Bailey said something. Then Devin fed Bailey's dog three treats. Let's try to figure out what Bailey said!

Two adults saw the whole thing happen: They heard what Bailey said and they saw Devin feed Bailey's dog three treats. The adults were asked: Do you think that Bailey

wanted Devin to feed the dog three treats, based on what Bailey said?

One adult said, “No, I’m really sure that Bailey did *not* want Devin to feed the dog three treats.” The other adult agreed and said, “No, I’m really sure that Bailey did *not* want Devin to feed the dog three treats.”

Check 1: Can you remind me, what did the first adult say? [child responds] So the first adult said, “No, I’m really sure that Bailey did *not* want Devin to feed the dog three treats!”

Check 2: Can you remind me, what did the second adult say? [child responds] So the second adult said, “No, I’m really sure that Bailey did *not* want Devin to feed the dog three treats!”

Test: So based on what the adults said, let’s try to figure out what Bailey said right before Devin feed Bailey’s dog three treats. Remember, the adults agreed with each other that they were really sure that Bailey did *not* want Devin to the dog three treats. Which of these three things did Bailey say right before Devin feed Bailey’s dog three treats?

1. “Please do not feed my dog.” (direct request)
2. “My dog eats so many treats.” (ambiguous utterance)
3. “My dog has cute ears.” (random statement)

### **Version 6: Negative Valence, ADAD, Dog to Wagon**

**Training story.** Let’s play a detective game! In this game, you are trying to fill in the missing part of a story. Let’s try one!

You’ll meet two kids. For this story, the kids are Casey and Terry. Casey said something, and you’ll try to figure out what Casey said based on the clues that follow.

So, next in the story, Terry pushed Casey down the slide. Two adults saw the whole thing happen: They heard what Casey said and they saw Terry push Casey down the slide. The adults were asked: Do you think that Casey wanted to be pushed down the slide, based on what Casey said? One adult said, “No, I’m really sure that Casey did *not* want to be pushed down the slide!” The other adult agreed and said, “No, I’m really sure that Casey did *not* want to be pushed down the slide!”

Check 1: Can you remind me, what did the first adult say? [child responds] So the first adult said, “No, I’m really sure that Casey did *not* want to be pushed down the slide.”

Check 2: Can you remind me, what did the second adult say? [child responds] So the second adult said, “No, I’m really sure that Casey did *not* want to be pushed down the slide.”

Test: So based on what the adults said, let’s try to figure out what Casey said right before Terry pushed Casey down the slide. Remember, the adults agreed with each other



that they were really sure that Casey did *not* want to be pushed down the slide. Which of these three things did Casey say right before Terry pushed Casey down the slide?

1. "Please do not push me down the slide." (direct request)
2. "I go down slides sometimes." (ambiguous utterance)
3. "The slide is green." (random statement)

(No feedback was provided.) That was practice. We will play the official guessing game four times altogether. Let's do the first one!

**Story 1: Dog, Agreement.** Bailey and Devin were at the dog park. Bailey said something. Then Devin fed Bailey's dog three treats. Let's try to figure out what Bailey said!

Two adults saw the whole thing happen: They heard what Bailey said and they saw Devin feed Bailey's dog three treats. The adults were asked: Do you think that Bailey wanted Devin to feed the dog three treats, based on what Bailey said?

One adult said, "No, I'm really sure that Bailey did *not* want Devin to feed the dog three treats." The other adult agreed and said, "No, I'm really sure that Bailey did *not* want Devin to feed the dog three treats."

Check 1: Can you remind me, what did the first adult say? [child responds] So the first adult said, "No, I'm really sure that Bailey did *not* want Devin to feed the dog three treats!"

Check 2: Can you remind me, what did the second adult say? [child responds] So the second adult said, "No, I'm really sure that Bailey did *not* want Devin to feed the dog three treats!"

Test: So based on what the adults said, let's try to figure out what Bailey said right before Devin feed Bailey's dog three treats. Remember, the adults agreed with each other that they were really sure that Bailey did *not* want Devin to the dog three treats. Which of these three things did Bailey say right before Devin feed Bailey's dog three treats?

1. "Please do not feed my dog." (direct request)
2. "My dog eats so many treats." (ambiguous utterance)
3. "My dog has cute ears." (random statement)

**Story 2: Snowman, Disagreement.** Jordan and Avery were in the art room. Jordan said something. Then Avery drew a hat on Jordan's snowman. Let's try to figure out what Jordan said!

Two adults saw the whole thing happen: They heard what Jordan said and they saw Avery draw a hat on Jordan's snowman. The adults were asked: Do you think that Jordan wanted Avery to draw a hat on the snowman, based on what Jordan said?

One adult said, "Yes, I'm really sure that Jordan wanted Avery to draw a hat on the snowman." The other adult disagreed and said, "No, I'm really sure that Jordan did *not*

want Avery to draw a hat on the snowman.”

Check 1: Can you remind me, what did the first adult say? [child responds] So the first adult said, “Yes, I’m really sure that Jordan wanted Avery to draw the hat on the snowman!”

Check 2: Can you remind me, what did the second adult say? [child responds] So the second adult said, “No, I’m really sure that Jordan did *not* want Avery to draw a hat on the snowman!”

Test: So based on what the adults said, let’s try to figure out what Jordan said right before Avery drew a hat on Jordan’s snowman. Remember, the adults disagreed with each other: One adult was really sure that Jordan wanted Avery to draw a hat on the snowman, while the other adult was really sure that Jordan did *not* want Avery to draw a hat on the snowman. Which of these three things did Jordan say right before Avery drew a hat on Jordan’s snowman?

1. “Please do not draw on my snowman.” (direct request)
2. “My snowman would look better if it was wearing something.” (ambiguous utterance)
3. “My snowman has buttons.” (random statement)

**Story 3: Tower, Agreement.** Cody and Morgan were in the play room. Cody said something. Then Morgan finished Cody’s block tower. Let’s try to figure out what Cody said!

Two adults saw the whole thing happen: They heard what Cody said and they saw Morgan finish Cody’s block tower. The adults were asked: Do you think that Cody wanted Morgan to finish the block tower, based on what Cody said?

One adult said, “No, I’m really sure that Cody did *not* want Morgan to finish the block tower.” The other adult agreed and said, “No, I’m really sure that Cody did *not* want Morgan to finish the block tower.”

Check 1: Can you remind me, what did the first adult say? [child responds] So the first adult said, “No, I’m really sure that Cody did *not* want Morgan to finish the block tower!”

Check 2: Can you remind me, what did the second adult say? [child responds] So the second adult said, “No, I’m really sure that Cody did *not* want Morgan to finish the block tower!”

Test: So based on what the adults said, let’s try to figure out what Cody said right before Morgan finished Cody’s block tower. Remember, the adults agreed with each other that they were really sure that Cody did *not* want Morgan to finish the block tower. Which of these three things did Cody say right before Morgan finished Cody’s block tower?

1. “Please do not finish my block tower.” (direct request)

2. “My block tower is almost finished.” (ambiguous utterance)
3. “My tower is made of blocks.” (random statement)

**Story 4: Wagon, Disagreement.** Sam and Robin were at the park. Sam said something. Then Robin painted Sam’s wagon orange. Let’s try to figure out what Sam said!

Two adults saw the whole thing happen: They heard what Sam said and they saw Robin paint Sam’s wagon orange. The adults were asked: Do you think that Sam wanted Robin to paint the wagon orange, based on what Sam said?

One adult said, “Yes, I’m really sure that Sam wanted Robin to paint the wagon orange.” The other adult disagreed and said, “No, I’m really sure that Sam did *not* want Robin to paint the wagon orange.”

Check 1: Can you remind me, what did the first adult say? [child responds] So the first adult said, “Yes, I’m really sure that Sam wanted Robin to paint the wagon orange.”

Check 2: Can you remind me, what did the second adult say? [child responds] So the second adult said, “No, I’m really sure that Sam did *not* want Robin to paint the wagon orange.”

Test: So based on what the adults said, let’s try to figure out what Sam said right before Robin painted Sam’s wagon orange. Remember, the adults disagreed with each other: One adult was really sure that Sam wanted Robin to paint the wagon orange, while the other adult was really sure that Sam did *not* want Robin to paint the wagon orange. Which of these three things did Sam say right before Robin painted Sam’s wagon orange?

1. “Please do not paint my wagon.” (direct request)
2. “My wagon would look better in a new color.” (ambiguous utterance)
3. “My wagon has four wheels.” (random statement)

### **Version 7: Negative Valence, ADAD, Wagon to Dog**

**Training story.** Let’s play a detective game! In this game, you are trying to fill in the missing part of a story. Let’s try one!

You’ll meet two kids. For this story, the kids are Casey and Terry. Casey said something, and you’ll try to figure out what Casey said based on the clues that follow.

So, next in the story, Terry pushed Casey down the slide. Two adults saw the whole thing happen: They heard what Casey said and they saw Terry push Casey down the slide. The adults were asked: Do you think that Casey wanted to be pushed down the slide, based on what Casey said? One adult said, “No, I’m really sure that Casey did *not* want to be pushed down the slide!” The other adult agreed and said, “No, I’m really sure that Casey did *not* want to be pushed down the slide!”

Check 1: Can you remind me, what did the first adult say? [child responds] So the first adult said, “No, I’m really sure that Casey did *not* want to be pushed down the slide.”

Check 2: Can you remind me, what did the second adult say? [child responds] So the second adult said, “No, I’m really sure that Casey did *not* want to be pushed down the slide.”

Test: So based on what the adults said, let’s try to figure out what Casey said right before Terry pushed Casey down the slide. Remember, the adults agreed with each other that they were really sure that Casey did *not* want to be pushed down the slide. Which of these three things did Casey say right before Terry pushed Casey down the slide?

1. “Please do not push me down the slide.” (direct request)
2. “I go down slides sometimes.” (ambiguous utterance)
3. “The slide is green.” (random statement)

(No feedback was provided.) That was practice. We will play the official guessing game four times altogether. Let’s do the first one!

**Story 1: Wagon, Agreement.** Sam and Robin were at the park. Sam said something. Then Robin painted Sam’s wagon orange. Let’s try to figure out what Sam said!

Two adults saw the whole thing happen: They heard what Sam said and they saw Robin paint Sam’s wagon orange. The adults were asked: Do you think that Sam wanted Robin to paint the wagon orange, based on what Sam said?

One adult said, “No, I’m really sure that Sam did *not* want Robin to paint the wagon orange.” The other adult agreed and said, “No, I’m really sure that Sam did *not* want Robin to paint the wagon orange.”

Check 1: Can you remind me, what did the first adult say? [child responds] So the first adult said, “No, I’m really sure that Sam did *not* want Robin to paint the wagon orange!”

Check 2: Can you remind me, what did the second adult say? [child responds] So the second adult said, “No, I’m really sure that Sam did *not* want Robin to paint the wagon orange!”

Test: So based on what the adults said, let’s try to figure out what Sam said right before Robin painted Sam’s wagon orange. Remember, the adults agreed with each other that they were really sure that Sam did *not* want Robin to paint the wagon orange. Which of these three things did Sam say right before Robin painted Sam’s wagon orange?

1. “Please do not paint my wagon.” (direct request)
2. “My wagon would look better in a new color.” (ambiguous utterance)
3. “My wagon has four wheels.” (random statement)

**Story 2: Tower, Disagreement.** Cody and Morgan were in the play room. Cody said something. Then Morgan finished Cody's block tower. Let's try to figure out what Cody said!

Two adults saw the whole thing happen: They heard what Cody said and they saw Morgan finish Cody's block tower. The adults were asked: Do you think that Cody wanted Morgan to finish the block tower, based on what Cody said?

One adult said, "Yes, I'm really sure that Cody wanted Morgan to finish the block tower." The other adult agreed and said, "No, I'm really sure that Cody did *not* want Morgan to finish the block tower."

Check 1: Can you remind me, what did the first adult say? [child responds] So the first adult said, "Yes, I'm really sure that Cody wanted Morgan to finish the block tower!"

Check 2: Can you remind me, what did the second adult say? [child responds] So the second adult said, "No, I'm really sure that Cody did *not* want Morgan to finish the block tower!"

Test: So based on what the adults said, let's try to figure out what Cody said right before Morgan finished Cody's block tower. Remember, the adults disagreed with each other: One adult was really sure that Cody wanted Morgan to finish the block tower, while the other was really sure that Cody did *not* want Morgan to finish the block tower. Which of these three things did Cody say right before Morgan finished Cody's block tower?

1. "Please do not finish my block tower." (direct request)
2. "My block tower is almost finished." (ambiguous utterance)
3. "My tower is made of blocks." (random statement)

**Story 3: Snowman, Agreement.** Jordan and Avery were in the art room. Jordan said something. Then Avery drew a hat on Jordan's snowman. Let's try to figure out what Jordan said!

Two adults saw the whole thing happen: They heard what Jordan said and they saw Avery draw a hat on Jordan's snowman. The adults were asked: Do you think that Jordan wanted Avery to draw a hat on the snowman, based on what Jordan said?

One adult said, "No, I'm really sure that Jordan did *not* want Avery to draw a hat on the snowman." The other adult agreed and said, "No, I'm really sure that Jordan did *not* want Avery to draw a hat on the snowman."

Check 1: Can you remind me, what did the first adult say? [child responds] So the first adult said, "No, I'm really sure that Jordan did *not* want Avery to draw the hat on the snowman!"

Check 2: Can you remind me, what did the second adult say? [child responds] So the second adult said, "No, I'm really sure that Jordan did *not* want Avery to draw a hat on the snowman!"

Test: So based on what the adults said, let's try to figure out what Jordan said right before Avery drew a hat on Jordan's snowman. Remember, the adults agreed with each other that they were really sure that Jordan did *not* want Avery to draw a hat on the snowman. Which of these three things did Jordan say right before Avery drew a hat on Jordan's snowman?

1. "Please do not draw on my snowman." (direct request)
2. "My snowman would look better if it was wearing something." (ambiguous utterance)
3. "My snowman has buttons." (random statement)

**Story 4: Dog, Disagreement.** Bailey and Devin were at the dog park. Bailey said something. Then Devin fed Bailey's dog three treats. Let's try to figure out what Bailey said!

Two adults saw the whole thing happen: They heard what Bailey said and they saw Devin feed Bailey's dog three treats. The adults were asked: Do you think that Bailey wanted Devin to feed the dog three treats, based on what Bailey said?

One adult said, "Yes, I'm really sure that Bailey wanted Devin to feed the dog three treats." The other adult disagreed and said, "No, I'm really sure that Bailey did *not* want Devin to feed the dog three treats."

Check 1: Can you remind me, what did the first adult say? [child responds] So the first adult said, "Yes, I'm really sure that Bailey wanted Devin to feed the dog three treats!"

Check 2: Can you remind me, what did the second adult say? [child responds] So the second adult said, "No, I'm really sure that Bailey did *not* want Devin to feed the dog three treats!"

Test: So based on what the adults said, let's try to figure out what Bailey said right before Devin feed Bailey's dog three treats. Remember, the adults disagreed with each other: One was really sure that Bailey wanted Devin to the dog three treats, while the other was really sure that Bailey did *not* want Devin to feed the dog three treats. Which of these three things did Bailey say right before Devin feed Bailey's dog three treats?

1. "Please do not feed my dog." (direct request)
2. "My dog eats so many treats." (ambiguous utterance)
3. "My dog has cute ears." (random statement)

### Version 8: Negative Valence, DADA, Dog to Wagon

**Training story.** Let's play a detective game! In this game, you are trying to fill in the missing part of a story. Let's try one!

You'll meet two kids. For this story, the kids are Casey and Terry. Casey said something, and you'll try to figure out what Casey said based on the clues that follow.

So, next in the story, Terry pushed Casey down the slide. Two adults saw the whole thing happen: They heard what Casey said and they saw Terry push Casey down the slide. The adults were asked: Do you think that Casey wanted to be pushed down the slide, based on what Casey said? One adult said, “No, I’m really sure that Casey did *not* want to be pushed down the slide!” The other adult agreed and said, “No, I’m really sure that Casey did *not* want to be pushed down the slide!”

Check 1: Can you remind me, what did the first adult say? [child responds] So the first adult said, “No, I’m really sure that Casey did *not* want to be pushed down the slide.”

Check 2: Can you remind me, what did the second adult say? [child responds] So the second adult said, “No, I’m really sure that Casey did *not* want to be pushed down the slide.”

Test: So based on what the adults said, let’s try to figure out what Casey said right before Terry pushed Casey down the slide. Remember, the adults agreed with each other that they were really sure that Casey did *not* want to be pushed down the slide. Which of these three things did Casey say right before Terry pushed Casey down the slide?

1. “Please do not push me down the slide.” (direct request)
2. “I go down slides sometimes.” (ambiguous utterance)
3. “The slide is green.” (random statement)

(No feedback was provided.) That was practice. We will play the official guessing game four times altogether. Let’s do the first one!

**Story 1: Dog, Disagreement.** Bailey and Devin were at the dog park. Bailey said something. Then Devin fed Bailey’s dog three treats. Let’s try to figure out what Bailey said!

Two adults saw the whole thing happen: They heard what Bailey said and they saw Devin feed Bailey’s dog three treats. The adults were asked: Do you think that Bailey wanted Devin to feed the dog three treats, based on what Bailey said?

One adult said, “Yes, I’m really sure that Bailey wanted Devin to feed the dog three treats.” The other adult disagreed and said, “No, I’m really sure that Bailey did *not* want Devin to feed the dog three treats.”

Check 1: Can you remind me, what did the first adult say? [child responds] So the first adult said, “Yes, I’m really sure that Bailey wanted Devin to feed the dog three treats!”

Check 2: Can you remind me, what did the second adult say? [child responds] So the second adult said, “No, I’m really sure that Bailey did *not* want Devin to feed the dog three treats!”

Test: So based on what the adults said, let’s try to figure out what Bailey said right before Devin feed Bailey’s dog three treats. Remember, the adults disagreed with each other: One was really sure that Bailey wanted Devin to the dog three treats, while the

other was really sure that Bailey did *not* want Devin to feed the dog three treats. Which of these three things did Bailey say right before Devin feed Bailey’s dog three treats?

1. “Please do not feed my dog.” (direct request)
2. “My dog eats so many treats.” (ambiguous utterance)
3. “My dog has cute ears.” (random statement)

**Story 2: Snowman, Agreement.** Jordan and Avery were in the art room. Jordan said something. Then Avery drew a hat on Jordan’s snowman. Let’s try to figure out what Jordan said!

Two adults saw the whole thing happen: They heard what Jordan said and they saw Avery draw a hat on Jordan’s snowman. The adults were asked: Do you think that Jordan wanted Avery to draw a hat on the snowman, based on what Jordan said?

One adult said, “No, I’m really sure that Jordan did *not* want Avery to draw a hat on the snowman.” The other adult agreed and said, “No, I’m really sure that Jordan did *not* want Avery to draw a hat on the snowman.”

Check 1: Can you remind me, what did the first adult say? [child responds] So the first adult said, “No, I’m really sure that Jordan did *not* want Avery to draw the hat on the snowman!”

Check 2: Can you remind me, what did the second adult say? [child responds] So the second adult said, “No, I’m really sure that Jordan did *not* want Avery to draw a hat on the snowman!”

Test: So based on what the adults said, let’s try to figure out what Jordan said right before Avery drew a hat on Jordan’s snowman. Remember, the adults agreed with each other that they were really sure that Jordan did *not* want Avery to draw a hat on the snowman. Which of these three things did Jordan say right before Avery drew a hat on Jordan’s snowman?

1. “Please do not draw on my snowman.” (direct request)
2. “My snowman would look better if it was wearing something.” (ambiguous utterance)
3. “My snowman has buttons.” (random statement)

**Story 3: Tower, Disagreement.** Cody and Morgan were in the play room. Cody said something. Then Morgan finished Cody’s block tower. Let’s try to figure out what Cody said!

Two adults saw the whole thing happen: They heard what Cody said and they saw Morgan finish Cody’s block tower. The adults were asked: Do you think that Cody wanted Morgan to finish the block tower, based on what Cody said?

One adult said, “Yes, I’m really sure that Cody wanted Morgan to finish the block tower.” The other adult agreed and said, “No, I’m really sure that Cody did *not* want



Morgan to finish the block tower.”

Check 1: Can you remind me, what did the first adult say? [child responds] So the first adult said, “Yes, I’m really sure that Cody wanted Morgan to finish the block tower!”

Check 2: Can you remind me, what did the second adult say? [child responds] So the second adult said, “No, I’m really sure that Cody did *not* want Morgan to finish the block tower!”

Test: So based on what the adults said, let’s try to figure out what Cody said right before Morgan finished Cody’s block tower. Remember, the adults disagreed with each other: One adult was really sure that Cody wanted Morgan to finish the block tower, while the other was really sure that Cody did *not* want Morgan to finish the block tower. Which of these three things did Cody say right before Morgan finished Cody’s block tower?

1. “Please do not finish my block tower.” (direct request)
2. “My block tower is almost finished.” (ambiguous utterance)
3. “My tower is made of blocks.” (random statement)

**Story 4: Wagon, Agreement.** Sam and Robin were at the park. Sam said something. Then Robin painted Sam’s wagon orange. Let’s try to figure out what Sam said!

Two adults saw the whole thing happen: They heard what Sam said and they saw Robin paint Sam’s wagon orange. The adults were asked: Do you think that Sam wanted Robin to paint the wagon orange, based on what Sam said?

One adult said, “No, I’m really sure that Sam did *not* want Robin to paint the wagon orange.” The other adult agreed and said, “No, I’m really sure that Sam did *not* want Robin to paint the wagon orange.”

Check 1: Can you remind me, what did the first adult say? [child responds] So the first adult said, “No, I’m really sure that Sam did *not* want Robin to paint the wagon orange!”

Check 2: Can you remind me, what did the second adult say? [child responds] So the second adult said, “No, I’m really sure that Sam did *not* want Robin to paint the wagon orange!”

Test: So based on what the adults said, let’s try to figure out what Sam said right before Robin painted Sam’s wagon orange. Remember, the adults agreed with each other that they were really sure that Sam did *not* want Robin to paint the wagon orange. Which of these three things did Sam say right before Robin painted Sam’s wagon orange?

1. “Please do not paint my wagon.” (direct request)
2. “My wagon would look better in a new color.” (ambiguous utterance)
3. “My wagon has four wheels.” (random statement)

**Experiment 2 Prediction: Story Versions****Prediction Version 1: Positive Valence, UAUA, Wagon to Dog**

**Training Story.** Let’s play a guessing game! In this game, you will guess what happens next in a story. Let’s try one!

If I say “Cats are the best animal”, and this person *also* thinks cats are the best animal, are they going to: 1. agree or 2. disagree with what I just said?

Test: So will we: 1. agree or 2. disagree? [child responds] Yeah, we will agree!

Now if I say “Dogs are the best animal” and this person does *not* think dogs are the best animal, are they going to 1. agree or 2. disagree with what I just said?

Test: So will we 1. agree or 2. disagree? [child responds] Yeah, we will disagree!

That was practice! We will play the official guessing game four times all together. Let’s do the first one!

**Story 1: Wagon, U/A.** Sam and Robin are at the park. Sam says to Robin, “Please paint my wagon.”

Check 1: Can you remind me, what did Sam say to Robin? [child responds] Yeah, Sam said to Robin, “Please paint my wagon.”

Other people heard what Sam said, and are thinking about whether Sam wants Robin to paint the wagon. What happens next?

1. The people agree: They both say, “I think Sam wants Robin to paint the wagon.”
2. The people disagree: One says, “I think Sam wants Robin to paint the wagon, but the other says, ‘Actually, I *don’t* think Sam wants that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

On a different day, Sam and Robin are at the park. Sam says to Robin, “My wagon would look better in a new color.”

Check 2: Can you remind me, what did Sam say to Robin? [child responds] Yeah, Sam said to Robin, “My wagon would look better in a new color.”

Other people heard what Sam said, and are thinking about whether Sam wants Robin to paint the wagon. What happens next?

1. The people agree: They both say, “I think Sam wants Robin to paint the wagon.”
2. The people disagree: One says, “I think Sam wants Robin to paint the wagon, but the other says, ‘Actually, I *don’t* think Sam wants that.’”

Test: So which happens next: Will they 1. agree, or 2. disagree? [child responds]

**Story 2: Block tower, A/U.** Cody and Morgan are in the playroom. Cody says to Morgan, “My block tower is almost finished.”

Check 1: Can you remind me, what did Cody say to Morgan? [child responds] Yeah, Cody said to Morgan, “My block tower is almost finished.”

Other people heard what Cody said, and are thinking about whether Cody wants Morgan to finish the block tower. What happens next?

1. The people agree: They both say, “I think Cody wants Morgan to finish the block tower.”

2. The people disagree: One says, “I think Cody wants Morgan to finish the block tower, but the other says, ‘Actually, I *don’t* think Cody wants that.’”

Test: So which happens next: Will they 1. agree, or 2. disagree? [child responds]

On a different day, Cody and Morgan are in the playroom. Cody says to Morgan, “Please finish my block tower.”

Check 2: Can you remind me, what did Cody say to Morgan? [child responds] Yeah, Cody said to Morgan, “Please finish my block tower.”

Other people heard what Cody said, and are thinking about whether Cody wants Morgan to finish the block tower. What happens next?

1. The people agree: They both say, “I think Cody wants Morgan to finish the block tower.”

2. The people disagree: One says, “I think Cody wants Morgan to finish the block tower, but the other says, ‘Actually, I *don’t* think Cody wants that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

**Story 3: Snowman, U/A.** Avery and Jordan are in the art room. Avery says to Jordan, “Please draw on my snowman.”

Check 1: Can you remind me, what did Avery say to Jordan? [child responds] Yeah, Avery said to Jordan, “Please draw on my snowman.”

Other people heard what Avery said, and are thinking about whether Avery wants Jordan to draw on the snowman. What happens next?

1. The people agree: They both say, “I think Avery wants Jordan to draw on the snowman.”

2. The people disagree: One says, “I think Avery wants Jordan to draw on the snowman, but the other says, ‘Actually, I *don’t* think Avery wants that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

On a different day, Avery and Jordan are in the art room. Avery says to Jordan, “My snowman would look better if it was wearing something.”

Check 2: Can you remind me, what did Avery say to Jordan? Yeah, Avery said to Jordan, “My snowman would look better if it was wearing something.”

Other people heard what Avery said, and are thinking about whether Avery wants Jordan to draw on the snowman. What happens next?

1. The people agree: They both say, “I think Avery wants Jordan to draw on the snowman.”

2. The people disagree: One says, “I think Avery wants Jordan to draw on the snowman, but the other says, ‘Actually, I *don’t* think Avery wants that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

**Story 4: Dog, A/U.** Bailey and Devin are at the dog park. Bailey says to Devin, “My dog eats so many treats.”

Check 1: Can you remind me, what did Bailey say to Devin? [child responds] Yeah, Bailey said to Devin, “My dog eats so many treats.”

Other people heard what Bailey said, and are thinking about whether Bailey wants Devin to feed the dog some treats. What happens next?

1. The people agree: They both say, “I think Bailey wants Devin to feed the dog some treats.”

2. The people disagree: One says, “I think Bailey wants Devin to feed the dog some treats, but the other says, ‘Actually, I *don’t* think Bailey wants that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

On a different day, Bailey and Devin are at the dog park. Bailey says to Devin, “Please feed my dog some treats.”

Check 2: Can you remind me, what did Bailey say to Devin? [child responds] Yeah, Bailey said to Devin, “Please feed my dog some treats.”

Other people heard what Bailey said, and are thinking about whether Bailey wants Devin to feed the dog some treats. What happens next?

1. The people agree: They both say, “I think Bailey wants Devin to feed the dog some treats.”

2. The people disagree: One says, “I think Bailey wants Devin to feed the dog some treats, but the other says, ‘Actually, I *don’t* think Bailey wants that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

### **Prediction Version 2: Positive Valence, AUAU, Wagon to Dog**

**Training Story.** Let’s play a guessing game! In this game, you will guess what happens next in a story. Let’s try one!

If I say “Cats are the best animal”, and this person *also* thinks cats are the best animal-are they going to: 1. agree or 2. disagree with what I just said?

Test: So will we: 1. agree or 2. disagree? [child responds] Yeah, we will agree!

Now if I say “Dogs are the best animal” and this person does *not* think dogs are the best animal, are they going to 1. agree or 2. disagree with what I just said?

Test: So will we 1. agree or 2. disagree? [child responds] Yeah, we will disagree!

That was practice! We will play the official guessing game four times all together. Let’s do the first one!

**Story 1: Wagon, A/U.** Sam and Robin are at the park. Sam says to Robin, “My wagon would look better in a new color.”

Check 1: Can you remind me, what did Sam say to Robin? [child responds] Yeah, Sam said to Robin, “My wagon would look better in a new color.”

Other people heard what Sam said, and are thinking about whether Sam wants Robin to paint the wagon. What happens next?

1. The people agree: They both say, “I think Sam wants Robin to paint the wagon.”
2. The people disagree: One says, “I think Sam wants Robin to paint the wagon, but the other says, ‘Actually, I *don’t* think Sam wants that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

On a different day, Sam and Robin are at the park. Sam says to Robin, “Please paint my wagon.”

Check 2: Can you remind me, what did Sam say to Robin? [child responds] Yeah, Sam said to Robin, “Please paint my wagon.”

Other people heard what Sam said, and are thinking about whether Sam wants Robin to paint the wagon. What happens next?

1. The people agree: They both say, “I think Sam wants Robin to paint the wagon.”
2. The people disagree: One says, “I think Sam wants Robin to paint the wagon, but the other says, ‘Actually, I *don’t* think Sam wants that.’”

Test: So which happens next: Will they 1. agree, or 2. disagree? [child responds]

**Story 2: Block tower, U/A.** Cody and Morgan are in the playroom. Cody says to Morgan, “Please finish my block tower.”

Check 1: Can you remind me, what did Cody say to Morgan? [child responds] Yeah, Cody said to Morgan, “Please finish my block tower.”

Other people heard what Cody said, and are thinking about whether Cody wants Morgan to finish the block tower. What happens next?

1. The people agree: They both say, “I think Cody wants Morgan to finish the block tower.”
2. The people disagree: One says, “I think Cody wants Morgan to finish the block tower, but the other says, ‘Actually, I *don’t* think Cody wants that.’”

Test: So which happens next: Will they 1. agree, or 2. disagree? [child responds]

On a different day, Cody and Morgan are in the playroom. Cody says to Morgan, “My block tower is almost finished.”

Check 2: Can you remind me, what did Cody say to Morgan? [child responds] Yeah, Cody said to Morgan, “My block tower is almost finished.”

Other people heard what Cody said, and are thinking about whether Cody wants Morgan to finish the block tower. What happens next?

1. The people agree: They both say, “I think Cody wants Morgan to finish the block tower.”

2. The people disagree: One says, “I think Cody wants Morgan to finish the block tower, but the other says, ‘Actually, I *don’t* think Cody wants that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

**Story 3: Snowman, A/U.** Avery and Jordan are in the art room. Avery says to Jordan, “My snowman would look better if it was wearing something.”

Check 1: Can you remind me, what did Avery say to Jordan? [child responds] Yeah, Avery said to Jordan, “My snowman would look better if it was wearing something.”

Other people heard what Avery said, and are thinking about whether Avery wants Jordan to draw on the snowman. What happens next?

1. The people agree: They both say, “I think Avery wants Jordan to draw on the snowman.”

2. The people disagree: One says, “I think Avery wants Jordan to draw on the snowman, but the other says, ‘Actually, I *don’t* think Avery wants that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

On a different day, Avery and Jordan are in the art room. Avery says to Jordan, “Please draw on my snowman.”

Check 2: Can you remind me, what did Avery say to Jordan? Yeah, Avery said to Jordan, “Please draw on my snowman.”

Other people heard what Avery said, and are thinking about whether Avery wants Jordan to draw on the snowman. What happens next?

1. The people agree: They both say, “I think Avery wants Jordan to draw on the snowman.”

2. The people disagree: One says, “I think Avery wants Jordan to draw on the snowman, but the other says, ‘Actually, I *don’t* think Avery wants that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

**Story 4: Dog, U/A.** Bailey and Devin are at the dog park. Bailey says to Devin, “Please feed my dog some treats.”

Check 1: Can you remind me, what did Bailey say to Devin? [child responds] Yeah, Bailey said to Devin, “Please feed my dog some treats.”

Other people heard what Bailey said, and are thinking about whether Bailey wants Devin to feed the dog some treats. What happens next?

1. The people agree: They both say, “I think Bailey wants Devin to feed the dog some treats.”

2. The people disagree: One says, “I think Bailey wants Devin to feed the dog some treats, but the other says, ‘Actually, I *don’t* think Bailey wants that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

On a different day, Bailey and Devin are at the dog park. Bailey says to Devin, “My dog eats so many treats.”

Check 2: Can you remind me, what did Bailey say to Devin? [child responds] Yeah, Bailey said to Devin, “My dog eats so many treats.”

Other people heard what Bailey said, and are thinking about whether Bailey wants Devin to feed the dog some treats. What happens next?

1. The people agree: They both say, “I think Bailey wants Devin to feed the dog some treats.”

2. The people disagree: One says, “I think Bailey wants Devin to feed the dog some treats, but the other says, ‘Actually, I *don’t* think Bailey wants that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

### **Prediction Version 3: Positive Valence, UAU, Dog to Wagon**

**Training Story.** Let’s play a guessing game! In this game, you will guess what happens next in a story. Let’s try one!

If I say “Cats are the best animal”, and this person *also* thinks cats are the best animal—are they going to: 1. agree or 2. disagree with what I just said?

Test: So will we: 1. agree or 2. disagree? [child responds] Yeah, we will agree!

Now if I say “Dogs are the best animal” and this person does *not* think dogs are the best animal, are they going to 1. agree or 2. disagree with what I just said?

Test: So will we 1. agree or 2. disagree? [child responds] Yeah, we will disagree!

That was practice! We will play the official guessing game four times all together. Let’s do the first one!

**Story 1: Dog, U/A.** Bailey and Devin are at the dog park. Bailey says to Devin, “Please feed my dog some treats.”

Check 1: Can you remind me, what did Bailey say to Devin? [child responds] Yeah, Bailey said to Devin, “Please feed my dog some treats.”

Other people heard what Bailey said, and are thinking about whether Bailey wants Devin to feed the dog some treats. What happens next?

1. The people agree: They both say, “I think Bailey wants Devin to feed the dog some treats.”

2. The people disagree: One says, “I think Bailey wants Devin to feed the dog some treats, but the other says, ‘Actually, I *don’t* think Bailey wants that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

On a different day, Bailey and Devin are at the dog park. Bailey says to Devin, “My dog eats so many treats.”

Check 2: Can you remind me, what did Bailey say to Devin? [child responds] Yeah, Bailey said to Devin, “My dog eats so many treats.”

Other people heard what Bailey said, and are thinking about whether Bailey wants Devin to feed the dog some treats. What happens next?

1. The people agree: They both say, “I think Bailey wants Devin to feed the dog some treats.”

2. The people disagree: One says, “I think Bailey wants Devin to feed the dog some treats, but the other says, ‘Actually, I *don’t* think Bailey wants that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

**Story 2: Snowman, A/U.** Avery and Jordan are in the art room. Avery says to Jordan, “My snowman would look better if it was wearing something.”

Check 1: Can you remind me, what did Avery say to Jordan? [child responds] Yeah, Avery said to Jordan, “My snowman would look better if it was wearing something.”

Other people heard what Avery said, and are thinking about whether Avery wants Jordan to draw on the snowman. What happens next?

1. The people agree: They both say, “I think Avery wants Jordan to draw on the snowman.”

2. The people disagree: One says, “I think Avery wants Jordan to draw on the snowman, but the other says, ‘Actually, I *don’t* think Avery wants that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

On a different day, Avery and Jordan are in the art room. Avery says to Jordan, “Please draw on my snowman.”

Check 2: Can you remind me, what did Avery say to Jordan? Yeah, Avery said to Jordan, “Please draw on my snowman.”

Other people heard what Avery said, and are thinking about whether Avery wants Jordan to draw on the snowman. What happens next?

1. The people agree: They both say, “I think Avery wants Jordan to draw on the snowman.”

2. The people disagree: One says, “I think Avery wants Jordan to draw on the snowman, but the other says, ‘Actually, I *don’t* think Avery wants that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

**Story 3: Block Tower, U/A.** Cody and Morgan are in the playroom. Cody says to Morgan, “Please finish my block tower.”

Check 1: Can you remind me, what did Cody say to Morgan? [child responds] Yeah, Cody said to Morgan, “Please finish my block tower.”

Other people heard what Cody said, and are thinking about whether Cody wants Morgan to finish the block tower. What happens next?



1. The people agree: They both say, “I think Cody wants Morgan to finish the block tower.”

2. The people disagree: One says, “I think Cody wants Morgan to finish the block tower, but the other says, ‘Actually, I *don’t* think Cody wants that.’”

Test: So which happens next: Will they 1. agree, or 2. disagree? [child responds]

On a different day, Cody and Morgan are in the playroom. Cody says to Morgan, “My block tower is almost finished.”

Check 2: Can you remind me, what did Cody say to Morgan? [child responds] Yeah, Cody said to Morgan, “My block tower is almost finished.”

Other people heard what Cody said, and are thinking about whether Cody wants Morgan to finish the block tower. What happens next?

1. The people agree: They both say, “I think Cody wants Morgan to finish the block tower.”

2. The people disagree: One says, “I think Cody wants Morgan to finish the block tower, but the other says, ‘Actually, I *don’t* think Cody wants that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

**Story 4: Wagon, A/U.** Sam and Robin are at the park. Sam says to Robin, “My wagon would look better in a new color.”

Check 1: Can you remind me, what did Sam say to Robin? [child responds] Yeah, Sam said to Robin, “My wagon would look better in a new color.”

Other people heard what Sam said, and are thinking about whether Sam wants Robin to paint the wagon. What happens next?

1. The people agree: They both say, “I think Sam wants Robin to paint the wagon.”

2. The people disagree: One says, “I think Sam wants Robin to paint the wagon, but the other says, ‘Actually, I *don’t* think Sam wants that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

On a different day, Sam and Robin are at the park. Sam says to Robin, “Please paint my wagon.”

Check 2: Can you remind me, what did Sam say to Robin? [child responds] Yeah, Sam said to Robin, “Please paint my wagon.”

Other people heard what Sam said, and are thinking about whether Sam wants Robin to paint the wagon. What happens next?

1. The people agree: They both say, “I think Sam wants Robin to paint the wagon.”

2. The people disagree: One says, “I think Sam wants Robin to paint the wagon, but the other says, ‘Actually, I *don’t* think Sam wants that.’”

Test: So which happens next: Will they 1. agree, or 2. disagree? [child responds]

**Prediction Version 4: Positive Valence, AUAU, Dog to Wagon**

**Training Story.** Let’s play a guessing game! In this game, you will guess what happens next in a story. Let’s try one!

If I say “Cats are the best animal”, and this person *also* thinks cats are the best animal—are they going to: 1. agree or 2. disagree with what I just said?

Test: So will we: 1. agree or 2. disagree? [child responds] Yeah, we will agree!

Now if I say “Dogs are the best animal” and this person does *not* think dogs are the best animal, are they going to 1. agree or 2. disagree with what I just said?

Test: So will we 1. agree or 2. disagree? [child responds] Yeah, we will disagree!

That was practice! We will play the official guessing game four times all together. Let’s do the first one!

**Story 1: Dog, A/U.** Bailey and Devin are at the dog park. Bailey says to Devin, “My dog eats so many treats.”

Check 1: Can you remind me, what did Bailey say to Devin? [child responds] Yeah, Bailey said to Devin, “My dog eats so many treats.”

Other people heard what Bailey said, and are thinking about whether Bailey wants Devin to feed the dog some treats. What happens next?

1. The people agree: They both say, “I think Bailey wants Devin to feed the dog some treats.”

2. The people disagree: One says, “I think Bailey wants Devin to feed the dog some treats, but the other says, ‘Actually, I *don’t* think Bailey wants that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

On a different day, Bailey and Devin are at the dog park. Bailey says to Devin, “Please feed my dog some treats.”

Check 2: Can you remind me, what did Bailey say to Devin? [child responds] Yeah, Bailey said to Devin, “Please feed my dog some treats.”

Other people heard what Bailey said, and are thinking about whether Bailey wants Devin to feed the dog some treats. What happens next?

1. The people agree: They both say, “I think Bailey wants Devin to feed the dog some treats.”

2. The people disagree: One says, “I think Bailey wants Devin to feed the dog some treats, but the other says, ‘Actually, I *don’t* think Bailey wants that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

**Snowman, U/A.**

**Story 3: Snowman, U/A.** Avery and Jordan are in the art room. Avery says to Jordan, “Please draw on my snowman.”

Check 1: Can you remind me, what did Avery say to Jordan? [child responds] Yeah, Avery said to Jordan, “Please draw on my snowman.”

Other people heard what Avery said, and are thinking about whether Avery wants Jordan to draw on the snowman. What happens next?

1. The people agree: They both say, “I think Avery wants Jordan to draw on the snowman.”

2. The people disagree: One says, “I think Avery wants Jordan to draw on the snowman, but the other says, ‘Actually, I *don’t* think Avery wants that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

On a different day, Avery and Jordan are in the art room. Avery says to Jordan, “My snowman would look better if it was wearing something.”

Check 2: Can you remind me, what did Avery say to Jordan? Yeah, Avery said to Jordan, “My snowman would look better if it was wearing something.”

Other people heard what Avery said, and are thinking about whether Avery wants Jordan to draw on the snowman. What happens next?

1. The people agree: They both say, “I think Avery wants Jordan to draw on the snowman.”

2. The people disagree: One says, “I think Avery wants Jordan to draw on the snowman, but the other says, ‘Actually, I *don’t* think Avery wants that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

**Story 3: Block tower, A/U.** Cody and Morgan are in the playroom. Cody says to Morgan, “My block tower is almost finished.”

Check 1: Can you remind me, what did Cody say to Morgan? [child responds] Yeah, Cody said to Morgan, “My block tower is almost finished.”

Other people heard what Cody said, and are thinking about whether Cody wants Morgan to finish the block tower. What happens next?

1. The people agree: They both say, “I think Cody wants Morgan to finish the block tower.”

2. The people disagree: One says, “I think Cody wants Morgan to finish the block tower, but the other says, ‘Actually, I *don’t* think Cody wants that.’”

Test: So which happens next: Will they 1. agree, or 2. disagree? [child responds]

On a different day, Cody and Morgan are in the playroom. Cody says to Morgan, “Please finish my block tower.”

Check 2: Can you remind me, what did Cody say to Morgan? [child responds] Yeah, Cody said to Morgan, “Please finish my block tower.”

Other people heard what Cody said, and are thinking about whether Cody wants Morgan to finish the block tower. What happens next?

1. The people agree: They both say, “I think Cody wants Morgan to finish the block tower.”

2. The people disagree: One says, “I think Cody wants Morgan to finish the block tower, but the other says, ‘Actually, I *don’t* think Cody wants that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

**Story 4: Wagon, U/A.** Sam and Robin are at the park. Sam says to Robin, “Please paint my wagon.”

Check 1: Can you remind me, what did Sam say to Robin? [child responds] Yeah, Sam said to Robin, “Please paint my wagon.”

Other people heard what Sam said, and are thinking about whether Sam wants Robin to paint the wagon. What happens next?

1. The people agree: They both say, “I think Sam wants Robin to paint the wagon.”

2. The people disagree: One says, “I think Sam wants Robin to paint the wagon, but the other says, ‘Actually, I *don’t* think Sam wants that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

On a different day, Sam and Robin are at the park. Sam says to Robin, “My wagon would look better in a new color.”

Check 2: Can you remind me, what did Sam say to Robin? [child responds] Yeah, Sam said to Robin, “My wagon would look better in a new color.”

Other people heard what Sam said, and are thinking about whether Sam wants Robin to paint the wagon. What happens next?

1. The people agree: They both say, “I think Sam wants Robin to paint the wagon.”

2. The people disagree: One says, “I think Sam wants Robin to paint the wagon, but the other says, ‘Actually, I *don’t* think Sam wants that.’”

Test: So which happens next: Will they 1. agree, or 2. disagree? [child responds]

### **Prediction Version 5: Negative Valence, UAU, Wagon to Dog**

**Training Story.** Let’s play a guessing game! In this game you will guess what happened in a story. Let’s try one!

If I say “Cats are *not* the best animal”, and this person also thinks cats are *not* the best animal, are they going to 1. agree or 2. disagree with what I just said?

Test: So will we 1. agree or 2. disagree? [child responds] Yeah, we will agree!

Now if I say “Dogs are *not* the best animal”, and this person thinks dogs *are* the best animal, are they going to 1. agree or 2. disagree with what I just said?

So will we 1. agree or 2. disagree? [child responds] Yeah, we will disagree!

That was practice! We will play the official guessing game four times all together. Let’s do the first one!

**Story 1: Wagon, U/A.** Sam and Robin are at the park. Sam says to Robin, “Please do *not* paint my wagon.”

Check 1: Can you remind me, what did Sam say to Robin? [child responds] Yeah, Sam said to Robin, “Please do *not* paint my wagon.”

Other people heard what Sam said, and are thinking about whether Sam wants Robin to paint the wagon. What happens next?

1. The people agree: They both say, “I *don’t* think Sam wants Robin to paint the wagon.”

2. The people disagree: One says, “I *don’t* think Sam wants Robin to paint the wagon, but the other says, ‘Actually, I think Sam *wants* that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

On a different day, Sam and Robin are at the park. Sam says to Robin, “My wagon would look better in a new color.”

Check 2: Can you remind me, what did Sam say to Robin? [child responds] Yeah, Sam said to Robin, “My wagon would look better in a new color.”

Other people heard what Sam said, and are thinking about whether Sam wants Robin to paint the wagon. What happens next?

1. The people agree: They both say, “I *don’t* think Sam wants Robin to paint the wagon.”

2. The people disagree: One says, “I *don’t* think Sam wants Robin to paint the wagon, but the other says, ‘Actually, I think Sam *wants* that.’”

Test: So which happens next: Will they 1. agree, or 2. disagree? [child responds]

**Story 2: Block tower, A/U.** Cody and Morgan are in the playroom. Cody says to Morgan, “My block tower is almost finished.”

Check 1: Can you remind me, what did Cody say to Morgan? [child responds] Yeah, Cody said to Morgan, “My block tower is almost finished.”

Other people heard what Cody said, and are thinking about whether Cody wants Morgan to finish the block tower. What happens next?

1. The people agree: They both say, “I *don’t* think Cody wants Morgan to finish the block tower.”

2. The people disagree: One says, “I *don’t* think Cody wants Morgan to finish the block tower, but the other says, ‘Actually, I think Cody *wants* that.’”

Test: So which happens next: Will they 1. agree, or 2. disagree? [child responds]

On a different day, Cody and Morgan are in the playroom. Cody says to Morgan, “Please do *not* finish my block tower.”

Check 2: Can you remind me, what did Cody say to Morgan? [child responds] Yeah, Cody said to Morgan, “Please do *not* finish my block tower.”

Other people heard what Cody said, and are thinking about whether Cody wants Morgan to finish the block tower. What happens next?

1. The people agree: They both say, “I *don’t* think Cody wants Morgan to finish the block tower.”

2. The people disagree: One says, “I think Cody wants Morgan to finish the block tower, but the other says, ‘Actually, I think Cody *wants* that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

**Story 3: Snowman, U/A.** Avery and Jordan are in the art room. Avery says to Jordan, “Please do *not* draw on my snowman.”

Check 1: Can you remind me, what did Avery say to Jordan? [child responds] Yeah, Avery said to Jordan, “Please *not* draw on my snowman.”

Other people heard what Avery said, and are thinking about whether Avery wants Jordan to draw on the snowman. What happens next?

1. The people agree: They both say, “I *don’t* think Avery wants Jordan to draw on the snowman.”

2. The people disagree: One says, “I *don’t* think Avery wants Jordan to draw on the snowman, but the other says, ‘Actually, I think Avery *wants* that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

On a different day, Avery and Jordan are in the art room. Avery says to Jordan, “My snowman would look better if it was wearing something.”

Check 2: Can you remind me, what did Avery say to Jordan? Yeah, Avery said to Jordan, “My snowman would look better if it was wearing something.”

Other people heard what Avery said, and are thinking about whether Avery wants Jordan to draw on the snowman. What happens next?

1. The people agree: They both say, “I *don’t* think Avery wants Jordan to draw on the snowman.”

2. The people disagree: One says, “I *don’t* think Avery wants Jordan to draw on the snowman, but the other says, ‘Actually, I think Avery *wants* that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

**Story 4: Dog, A/U.** Bailey and Devin are at the dog park. Bailey says to Devin, “My dog eats so many treats.”

Check 1: Can you remind me, what did Bailey say to Devin? [child responds] Yeah, Bailey said to Devin, “My dog eats so many treats.”

Other people heard what Bailey said, and are thinking about whether Bailey wants Devin to feed the dog some treats. What happens next?

1. The people agree: They both say, “I *don’t* think Bailey wants Devin to feed the dog some treats.”

2. The people disagree: One says, “I *don’t* think Bailey wants Devin to feed the dog some treats, but the other says, ‘Actually, I think Bailey *wants* that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

On a different day, Bailey and Devin are at the dog park. Bailey says to Devin, “Please do *not* feed my dog some treats.”

Check 2: Can you remind me, what did Bailey say to Devin? [child responds] Yeah, Bailey said to Devin, “Please do *not* feed my dog some treats.”

Other people heard what Bailey said, and are thinking about whether Bailey wants Devin to feed the dog some treats. What happens next?

1. The people agree: They both say, “I *don’t* think Bailey wants Devin to feed the dog some treats.”

2. The people disagree: One says, “I *don’t* think Bailey wants Devin to feed the dog some treats, but the other says, ‘Actually, I think Bailey *wants* that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

### **Prediction Version 6: Negative Valence, AU AU, Wagon to Dog**

**Training Story.** Let’s play a guessing game! In this game you will guess what happened in a story. Let’s try one!

If I say “Cats are *not* the best animal”, and this person also thinks cats are *not* the best animal, are they going to 1. agree or 2. disagree with what I just said?

Test: So will we 1. agree or 2. disagree? [child responds] Yeah, we will agree!

Now if I say “Dogs are *not* the best animal”, and this person thinks dogs *are* the best animal, are they going to 1. agree or 2. disagree with what I just said?

So will we 1. agree or 2. disagree? [child responds] Yeah, we will disagree!

That was practice! We will play the official guessing game four times all together. Let’s do the first one!

**Story 1: Wagon, A/U.** Sam and Robin are at the park. Sam says to Robin, “My wagon would look better in a new color.”

Check 1: Can you remind me, what did Sam say to Robin? [child responds] Yeah, Sam said to Robin, “My wagon would look better in a new color.”

Other people heard what Sam said, and are thinking about whether Sam wants Robin to paint the wagon. What happens next?

1. The people agree: They both say, “I *don’t* think Sam wants Robin to paint the wagon.”

2. The people disagree: One says, “I *don’t* think Sam wants Robin to paint the wagon, but the other says, ‘Actually, I think Sam *wants* that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

On a different day, Sam and Robin are at the park. Sam says to Robin, “Please do *not* paint my wagon.”

Check 2: Can you remind me, what did Sam say to Robin? [child responds] Yeah, Sam said to Robin, “Please do *not* paint my wagon.”

Other people heard what Sam said, and are thinking about whether Sam wants Robin to paint the wagon. What happens next?

1. The people agree: They both say, “I *don’t* think Sam wants Robin to paint the wagon.”

2. The people disagree: One says, “I *don’t* think Sam wants Robin to paint the wagon, but the other says, ‘Actually, I think Sam *wants* that.”

Test: So which happens next: Will they 1. agree, or 2. disagree? [child responds]

**Story 2: Block tower, U/A.** Cody and Morgan are in the playroom. Cody says to Morgan, “Please do *not* finish my block tower.”

Check 1: Can you remind me, what did Cody say to Morgan? [child responds] Yeah, Cody said to Morgan, “Please do *not* finish my block tower.”

Other people heard what Cody said, and are thinking about whether Cody wants Morgan to finish the block tower. What happens next?

1. The people agree: They both say, “I *don’t* think Cody wants Morgan to finish the block tower.”

2. The people disagree: One says, “I *don’t* think Cody wants Morgan to finish the block tower, but the other says, ‘Actually, I think Cody *wants* that.”

Test: So which happens next: Will they 1. agree, or 2. disagree? [child responds]

On a different day, Cody and Morgan are in the playroom. Cody says to Morgan, “My block tower is almost finished.”

Check 2: Can you remind me, what did Cody say to Morgan? [child responds] Yeah, Cody said to Morgan, “My block tower is almost finished.”

Other people heard what Cody said, and are thinking about whether Cody wants Morgan to finish the block tower. What happens next?

1. The people agree: They both say, “I *don’t* think Cody wants Morgan to finish the block tower.”

2. The people disagree: One says, “I *don’t* think Cody wants Morgan to finish the block tower, but the other says, ‘Actually, I think Cody *wants* that.”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

**Story 3: Snowman, A/U.** Avery and Jordan are in the art room. Avery says to Jordan, “My snowman would look better if it was wearing something.”

Check 1: Can you remind me, what did Avery say to Jordan? [child responds] Yeah, Avery said to Jordan, “My snowman would look better if it was wearing something.”



Other people heard what Avery said, and are thinking about whether Avery wants Jordan to draw on the snowman. What happens next?

1. The people agree: They both say, “I *don’t* think Avery wants Jordan to draw on the snowman.”

2. The people disagree: One says, “I *don’t* think Avery wants Jordan to draw on the snowman, but the other says, ‘Actually, I think Avery *wants* that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

On a different day, Avery and Jordan are in the art room. Avery says to Jordan, “Please do *not* draw on my snowman.”

Check 2: Can you remind me, what did Avery say to Jordan? Yeah, Avery said to Jordan, “Please do *not* draw on my snowman.”

Other people heard what Avery said, and are thinking about whether Avery wants Jordan to draw on the snowman. What happens next?

1. The people agree: They both say, “I *don’t* think Avery wants Jordan to draw on the snowman.”

2. The people disagree: One says, “I *don’t* think Avery wants Jordan to draw on the snowman, but the other says, ‘Actually, I think Avery *wants* that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

**Story 4: Dog, U/A.** Bailey and Devin are at the dog park. Bailey says to Devin, “Please do *not* feed my dog some treats.”

Check 1: Can you remind me, what did Bailey say to Devin? [child responds] Yeah, Bailey said to Devin, “Please do *not* feed my dog some treats.”

Other people heard what Bailey said, and are thinking about whether Bailey wants Devin to feed the dog some treats. What happens next?

1. The people agree: They both say, “I *don’t* think Bailey wants Devin to feed the dog some treats.”

2. The people disagree: One says, “I *don’t* think Bailey wants Devin to feed the dog some treats, but the other says, ‘Actually, I think Bailey *wants* that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

On a different day, Bailey and Devin are at the dog park. Bailey says to Devin, “My dog eats so many treats.”

Check 2: Can you remind me, what did Bailey say to Devin? [child responds] Yeah, Bailey said to Devin, “My dog eats so many treats.”

Other people heard what Bailey said, and are thinking about whether Bailey *wants* Devin to feed the dog some treats. What happens next?

1. The people agree: They both say, “I *don’t* think Bailey wants Devin to feed the dog some treats.”

2. The people disagree: One says, “I *don’t* think Bailey wants Devin to feed the dog some treats, but the other says, ‘Actually, I think Bailey *wants* that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

### **Prediction Version 7: Negative Valence, UAU, Dog to Wagon**

**Training Story.** Let’s play a guessing game! In this game you will guess what happened in a story. Let’s try one!

If I say “Cats are *not* the best animal”, and this person also thinks cats are *not* the best animal, are they going to 1. agree or 2. disagree with what I just said?

Test: So will we 1. agree or 2. disagree? [child responds] Yeah, we will agree!

Now if I say “Dogs are *not* the best animal”, and this person thinks dogs *are* the best animal, are they going to 1. agree or 2. disagree with what I just said?

So will we 1. agree or 2. disagree? [child responds] Yeah, we will disagree!

That was practice! We will play the official guessing game four times all together. Let’s do the first one!

**Story 1: Dog, U/A.** Bailey and Devin are at the dog park. Bailey says to Devin, “Please do *not* feed my dog some treats.”

Check 1: Can you remind me, what did Bailey say to Devin? [child responds] Yeah, Bailey said to Devin, “Please do *not* feed my dog some treats.”

Other people heard what Bailey said, and are thinking about whether Bailey wants Devin to feed the dog some treats. What happens next?

1. The people agree: They both say, “I *don’t* think Bailey wants Devin to feed the dog some treats.”

2. The people disagree: One says, “I *don’t* think Bailey wants Devin to feed the dog some treats, but the other says, ‘Actually, I think Bailey *wants* that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

On a different day, Bailey and Devin are at the dog park. Bailey says to Devin, “My dog eats so many treats.”

Check 2: Can you remind me, what did Bailey say to Devin? [child responds] Yeah, Bailey said to Devin, “My dog eats so many treats.”

Other people heard what Bailey said, and are thinking about whether Bailey *wants* Devin to feed the dog some treats. What happens next?

1. The people agree: They both say, “I *don’t* think Bailey wants Devin to feed the dog some treats.”

2. The people disagree: One says, “I *don’t* think Bailey wants Devin to feed the dog some treats, but the other says, ‘Actually, I think Bailey *wants* that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

**Story 2: Snowman, A/U.** Avery and Jordan are in the art room. Avery says to Jordan, “My snowman would look better if it was wearing something.”

Check 1: Can you remind me, what did Avery say to Jordan? [child responds] Yeah, Avery said to Jordan, “My snowman would look better if it was wearing something.”

Other people heard what Avery said, and are thinking about whether Avery wants Jordan to draw on the snowman. What happens next?

1. The people agree: They both say, “I *don’t* think Avery wants Jordan to draw on the snowman.”

2. The people disagree: One says, “I *don’t* think Avery wants Jordan to draw on the snowman, but the other says, ‘Actually, I think Avery *wants* that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

On a different day, Avery and Jordan are in the art room. Avery says to Jordan, “Please do *not* draw on my snowman.”

Check 2: Can you remind me, what did Avery say to Jordan? Yeah, Avery said to Jordan, “Please do *not* draw on my snowman.”

Other people heard what Avery said, and are thinking about whether Avery wants Jordan to draw on the snowman. What happens next?

1. The people agree: They both say, “I *don’t* think Avery wants Jordan to draw on the snowman.”

2. The people disagree: One says, “I *don’t* think Avery wants Jordan to draw on the snowman, but the other says, ‘Actually, I think Avery *wants* that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

**Story 3: Block tower, U/A.** Cody and Morgan are in the playroom. Cody says to Morgan, “Please do *not* finish my block tower.”

Check 1: Can you remind me, what did Cody say to Morgan? [child responds] Yeah, Cody said to Morgan, “Please do *not* finish my block tower.”

Other people heard what Cody said, and are thinking about whether Cody wants Morgan to finish the block tower. What happens next?

1. The people agree: They both say, “I *don’t* think Cody wants Morgan to finish the block tower.”

2. The people disagree: One says, “I *don’t* think Cody wants Morgan to finish the block tower, but the other says, ‘Actually, I think Cody *wants* that.’”

Test: So which happens next: Will they 1. agree, or 2. disagree? [child responds]

On a different day, Cody and Morgan are in the playroom. Cody says to Morgan, “My block tower is almost finished.”

Check 2: Can you remind me, what did Cody say to Morgan? [child responds] Yeah, Cody said to Morgan, “My block tower is almost finished.”

Other people heard what Cody said, and are thinking about whether Cody wants Morgan to finish the block tower. What happens next?

1. The people agree: They both say, “I *don’t* think Cody wants Morgan to finish the block tower.”

2. The people disagree: One says, “I *don’t* think Cody wants Morgan to finish the block tower, but the other says, ‘Actually, I think Cody *wants* that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

**Story 4: Wagon, A/U.** Sam and Robin are at the park. Sam says to Robin, “My wagon would look better in a new color.”

Check 1: Can you remind me, what did Sam say to Robin? [child responds] Yeah, Sam said to Robin, “My wagon would look better in a new color.”

Other people heard what Sam said, and are thinking about whether Sam wants Robin to paint the wagon. What happens next?

1. The people agree: They both say, “I *don’t* think Sam wants Robin to paint the wagon.”

2. The people disagree: One says, “I *don’t* think Sam wants Robin to paint the wagon, but the other says, ‘Actually, I think Sam *wants* that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

On a different day, Sam and Robin are at the park. Sam says to Robin, “Please do *not* paint my wagon.”

Check 2: Can you remind me, what did Sam say to Robin? [child responds] Yeah, Sam said to Robin, “Please do *not* paint my wagon.”

Other people heard what Sam said, and are thinking about whether Sam wants Robin to paint the wagon. What happens next?

1. The people agree: They both say, “I *don’t* think Sam wants Robin to paint the wagon.”

2. The people disagree: One says, “I *don’t* think Sam wants Robin to paint the wagon, but the other says, ‘Actually, I think Sam *wants* that.’”

Test: So which happens next: Will they 1. agree, or 2. disagree? [child responds]

### Prediction Version 8: Negative Valence, AUAU, Dog to Wagon

**Training Story.** Let’s play a guessing game! In this game you will guess what happened in a story. Let’s try one!

If I say “Cats are *not* the best animal”, and this person also thinks cats are *not* the best animal, are they going to 1. agree or 2. disagree with what I just said?

Test: So will we 1. agree or 2. disagree? [child responds] Yeah, we will agree!

Now if I say “Dogs are *not* the best animal”, and this person thinks dogs *are* the best animal, are they going to 1. agree or 2. disagree with what I just said?

So will we 1. agree or 2. disagree? [child responds] Yeah, we will disagree!

That was practice! We will play the official guessing game four times all together. Let’s do the first one!

**Story 1: Dog, A/U.** Bailey and Devin are at the dog park. Bailey says to Devin, “My dog eats so many treats.”

Check 1: Can you remind me, what did Bailey say to Devin? [child responds] Yeah, Bailey said to Devin, “My dog eats so many treats.”

Other people heard what Bailey said, and are thinking about whether Bailey wants Devin to feed the dog some treats. What happens next?

1. The people agree: They both say, “I *don’t* think Bailey wants Devin to feed the dog some treats.”

2. The people disagree: One says, “I *don’t* think Bailey wants Devin to feed the dog some treats, but the other says, ‘Actually, I think Bailey *wants* that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

On a different day, Bailey and Devin are at the dog park. Bailey says to Devin, “Please do *not* feed my dog some treats.”

Check 2: Can you remind me, what did Bailey say to Devin? [child responds] Yeah, Bailey said to Devin, “Please do *not* feed my dog some treats.”

Other people heard what Bailey said, and are thinking about whether Bailey wants Devin to feed the dog some treats. What happens next?

1. The people agree: They both say, “I *don’t* think Bailey wants Devin to feed the dog some treats.”

2. The people disagree: One says, “I *don’t* think Bailey wants Devin to feed the dog some treats, but the other says, ‘Actually, I think Bailey *wants* that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

**Story 2: Snowman, U/A.** Avery and Jordan are in the art room. Avery says to Jordan, “Please do *not* draw on my snowman.”

Check 1: Can you remind me, what did Avery say to Jordan? [child responds] Yeah, Avery said to Jordan, “Please *not* draw on my snowman.”

Other people heard what Avery said, and are thinking about whether Avery wants Jordan to draw on the snowman. What happens next?

1. The people agree: They both say, “I *don’t* think Avery wants Jordan to draw on the snowman.”

2. The people disagree: One says, “I *don’t* think Avery wants Jordan to draw on the snowman, but the other says, ‘Actually, I think Avery *wants* that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

On a different day, Avery and Jordan are in the art room. Avery says to Jordan, “My snowman would look better if it was wearing something.”

Check 2: Can you remind me, what did Avery say to Jordan? Yeah, Avery said to Jordan, “My snowman would look better if it was wearing something.”

Other people heard what Avery said, and are thinking about whether Avery wants Jordan to draw on the snowman. What happens next?

1. The people agree: They both say, “I *don’t* think Avery wants Jordan to draw on the snowman.”

2. The people disagree: One says, “I *don’t* think Avery wants Jordan to draw on the snowman, but the other says, ‘Actually, I think Avery *wants* that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

**Story 3: Block tower, A/U.** Cody and Morgan are in the playroom. Cody says to Morgan, “My block tower is almost finished.”

Check 1: Can you remind me, what did Cody say to Morgan? [child responds] Yeah, Cody said to Morgan, “My block tower is almost finished.”

Other people heard what Cody said, and are thinking about whether Cody wants Morgan to finish the block tower. What happens next?

1. The people agree: They both say, “I *don’t* think Cody wants Morgan to finish the block tower.”

2. The people disagree: One says, “I *don’t* think Cody wants Morgan to finish the block tower, but the other says, ‘Actually, I think Cody *wants* that.’”

Test: So which happens next: Will they 1. agree, or 2. disagree? [child responds]

On a different day, Cody and Morgan are in the playroom. Cody says to Morgan, “Please do *not* finish my block tower.”

Check 2: Can you remind me, what did Cody say to Morgan? [child responds] Yeah, Cody said to Morgan, “Please do *not* finish my block tower.”

Other people heard what Cody said, and are thinking about whether Cody wants Morgan to finish the block tower. What happens next?

1. The people agree: They both say, “I *don’t* think Cody wants Morgan to finish the block tower.”

2. The people disagree: One says, “I think Cody wants Morgan to finish the block tower, but the other says, ‘Actually, I think Cody *wants* that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

**Story 4: Wagon, U/A.** Sam and Robin are at the park. Sam says to Robin, “Please do *not* paint my wagon.”

Check 1: Can you remind me, what did Sam say to Robin? [child responds] Yeah, Sam said to Robin, “Please do *not* paint my wagon.”

Other people heard what Sam said, and are thinking about whether Sam wants Robin to paint the wagon. What happens next?

1. The people agree: They both say, “I *don’t* think Sam wants Robin to paint the wagon.”

2. The people disagree: One says, “I *don’t* think Sam wants Robin to paint the wagon, but the other says, ‘Actually, I think Sam *wants* that.’”

Test: So, which happens next: Will they 1. agree, or 2. disagree? [child responds]

On a different day, Sam and Robin are at the park. Sam says to Robin, “My wagon would look better in a new color.”

Check 2: Can you remind me, what did Sam say to Robin? [child responds] Yeah, Sam said to Robin, “My wagon would look better in a new color.”

Other people heard what Sam said, and are thinking about whether Sam wants Robin to paint the wagon. What happens next?

1. The people agree: They both say, “I *don’t* think Sam wants Robin to paint the wagon.”

2. The people disagree: One says, “I *don’t* think Sam wants Robin to paint the wagon, but the other says, ‘Actually, I think Sam *wants* that.’”

Test: So which happens next: Will they 1. agree, or 2. disagree? [child responds]

## Experiment 2 Inference: Story Versions

### Inference Version 1: Positive Valence, ADAD, Wagon to Dog

**Training Story.** Let’s play a guessing game! In this game you will guess what happened in a story. Let’s try one!

This person said something about animals. Then, I agreed, and said, “Yes, cats are the best animal!”

Test: What did this person say: 1. “Cats are the best animal” or 2. “Dogs are the best animal”? [child responds] Yeah, the person said “Cats are the best animal.”

On a different day, this person said something about animals. Then, I disagreed, and said, “Actually, dogs are *not* the best animal!”

Test: What did this person say: 1. “Cats are the best animal” or 2. “Dogs are the best animal”? [child responds] Yeah, the person said “Dogs are the best animal.”

That was practice! We will play the official guessing game four times all together. Let’s do the first one!

**Story 1: Wagon, A/D.** Sam and Robin were at the park. Sam said something to Robin about the wagon.

Other people heard what Sam said, and thought about whether Sam wants Robin to paint the wagon. The people agreed: They both said, “I think Sam *wants* Robin to paint the wagon.”

Check 1: Can you remind me, did they agree or disagree about what Sam wants? [child responds] Yeah, they agreed: They both said, “I think Sam *wants* Robin to paint the wagon.”

Based on this, what did Sam say to Robin?

1. “Please paint my wagon.” (direct request)
2. “My wagon would look better in a new color.” (ambiguous utterance)

Test: So, which did Sam say to Robin: 1 or 2? [child responds]

On a different day, Sam and Robin were at the park. Sam said something to Robin about the wagon.

Other people heard what Sam said, and thought about whether Sam wants Robin to paint the wagon. The people disagreed: One said, “I think Sam *wants* Robin to paint the wagon, but the other said, “Actually, I *don’t* think Sam wants that.”

Check 2: Can you remind me, did they agree or disagree about what Sam wants? [child responds] Yeah, they disagreed: One said, “I think Sam *wants* Robin to paint the wagon, but the other said, ‘Actually, I *don’t* think Sam wants that.’”

Based on this, what did Sam say to Robin?

1. “Please paint my wagon.” (direct request)
2. “My wagon would look better in a new color.” (ambiguous utterance)

Test: So, which did Sam say to Robin: 1 or 2? [child responds]

**Story 2: Block tower, D/A.** Cody and Morgan were in the play room. Cody said something to Morgan about the block tower.

Other people heard what Cody said, and thought about whether Cody wants Morgan to finish the block tower. The people disagreed: One said, “I think Cody *wants* Morgan to finish the block tower, but the other said, ‘Actually, I *don’t* think Cody wants that.’”

Check 1: Can you remind me, did they agree or disagree about what Cody wants? [child responds] Yeah, they disagreed: One said, “I think Cody *wants* Morgan to finish the block tower, but the other said, ‘Actually, I *don’t* think Cody wants that.’”

Based on this, what did Cody say to Morgan?

1. “Please finish my block tower.” (direct request)
2. “My block tower is almost finished.” (ambiguous utterance)

Test: So, which did Cody say to Morgan: 1 or 2? [child responds]



On a different day, Cody and Morgan were in the playroom. Cody said something to Morgan about the block tower.

Other people heard what Cody said, and thought about whether Cody wants Morgan to finish the block tower. The people agreed: They both said, “I think Cody *wants* Morgan to finish the block tower.”

Check 2: Can you remind me, did they agree or disagree about what Cody wants? [child responds] Yeah, they agreed: They both said, “I think Cody *wants* Morgan to finish the block tower.”

Based on this, what did Cody say to Morgan?

1. “Please finish my block tower.” (direct statement)
2. “My block tower is almost finished.” (ambiguous utterance)

Test: So, which did Cody say to Morgan: 1 or 2? [child responds]

**Story 3: Snowman, A/D.** Avery and Jordan were in the art room. Avery said something to Jordan about the snowman.

Other people heard what Avery said, and thought about whether Avery wants Jordan to draw on the snowman. The people agreed: They both said, “I think Avery *wants* Jordan to draw on the snowman.”

Check 1: Can you remind me, did they agree or disagree about what Avery wants? [child responds] Yeah, they agreed: They both said, “I think Avery *wants* Jordan to draw on the snowman.”

Based on this, what did Avery say to Jordan?

1. “Please draw on my snowman.” (direct request)
2. “My snowman would look better if it was wearing something.” (ambiguous utterance)

Test: So, which did Avery say to Jordan: 1 or 2? [child responds]

On a different day, Avery and Jordan were in the art room. Avery said something to Jordan about the snowman.

Other people heard what Avery said, and thought about whether Avery wants Jordan to draw on the snowman. The people disagreed: One said, “I think Avery *wants* Jordan to draw on the snowman, but the other said, ‘Actually, I *don’t* think Avery wants that.’”

Check 2: Can you remind me, did they agree or disagree about what Avery wants? [child responds] Yeah, they disagreed: One said, “I think Avery *wants* Jordan to draw on the snowman,” but the other said, “Actually I *don’t* think Avery wants that.”

Based on this, what did Avery say to Jordan?

1. “Please draw on my snowman.” (direct request)
2. “My snowman would look better if it was wearing something.” (ambiguous utterance)

Test: So, which did Avery say to Jordan: 1 or 2? [child responds]

**Story 4: Dog, D/A.** Bailey and Devin were at the dog park. Bailey said something to Devin about the dog.

Other people heard what Bailey said, and thought about whether Bailey wants Devin to feed the dog some treats. The people disagreed: One said, “I think Bailey *wants* Devin to feed the dog some treats, but the other said, ‘Actually, I *don’t* think Bailey wants that.’”

Check 1: Can you remind me, did they agree or disagree about what Bailey wants? [child responds] Yeah, they disagreed: One said, “I think Bailey *wants* Devin to feed the dog some treats, but the other said, ‘Actually, I *don’t* think Bailey wants that.’”

Based on this, what did Bailey say to Devin?

1. “Please feed my dog some treats.” (direct request)
2. “My dog eats so many treats.” (ambiguous utterance)

Test: So, which did Bailey say to Devin: 1 or 2? [child responds]

On a different day, Bailey and Devin were at the dog park. Bailey said something to Devin about the dog.

Other people heard what Bailey said, and thought about whether Bailey wants Devin to feed the dog some treats. The people agreed: They both said, “I think Bailey *wants* Devin to feed the dog some treats.”

Check 2: Can you remind me, did they agree or disagree about what Bailey wants? [child responds] Yeah, they agreed: They both said, “I think Bailey *wants* Devin to feed the dog some treats.”

Based on this, what did Bailey say to Devin?

1. “Please feed my dog some treats.” (direct request)
2. “My dog eats so many treats.” (ambiguous utterance)

Test: So, which did Bailey say to Devin: 1 or 2? [child responds]

### **Inference Version 2: Positive Valence, DADA, Wagon to Dog**

**Training Story.** Let’s play a guessing game! In this game you will guess what happened in a story. Let’s try one!

This person said something about animals. Then, I agreed, and said, “Yes, cats are the best animal!”

Test: What did this person say: 1. “Cats are the best animal” or 2. “Dogs are the best animal”? [child responds] Yeah, the person said “Cats are the best animal.”

On a different day, this person said something about animals. Then, I disagreed, and said, “Actually, dogs are *not* the best animal!”

Test: What did this person say: 1. “Cats are the best animal” or 2. “Dogs are the best animal”? [child responds] Yeah, the person said “Dogs are the best animal.”

That was practice! We will play the official guessing game four times all together. Let's do the first one!

**Story 1: Wagon, D/A.** Sam and Robin were at the park. Sam said something to Robin about the wagon.

Other people heard what Sam said, and thought about whether Sam wants Robin to paint the wagon. The people disagreed: One said, "I think Sam *wants* Robin to paint the wagon, but the other said, 'Actually, I *don't* think Sam wants that.'"

Check 1: Can you remind me, did they agree or disagree about what Sam wants? [child responds] Yeah, they disagreed: One said, "I think Sam *wants* Robin to paint the wagon, but the other said, 'Actually, I *don't* think Sam wants that.'"

Based on this, what did Sam say to Robin?

1. "Please paint my wagon." (direct request)
2. "My wagon would look better in a new color." (ambiguous utterance)

Test: So, which did Sam say to Robin: 1 or 2? [child responds]

On a different day, Sam and Robin were at the park. Sam said something to Robin about the wagon.

Other people heard what Sam said, and thought about whether Sam wants Robin to paint the wagon. The people agreed: They both said, "I think Sam *wants* Robin to paint the wagon."

Check 2: Can you remind me, did they agree or disagree about what Sam wants? [child responds] Yeah, they agreed: They both said, "I think Sam *wants* Robin to paint the wagon."

Based on this, what did Sam say to Robin?

1. "Please paint my wagon." (direct request)
2. "My wagon would look better in a new color." (ambiguous utterance)

Test: So, which did Sam say to Robin: 1 or 2? [child responds]

**Story 2: Block tower, A/D.** Cody and Morgan were in the play room. Cody said something to Morgan about the block tower.

Other people heard what Cody said, and thought about whether Cody wants Morgan to finish the block tower. The people agreed: They both said, "I think Cody *wants* Morgan to finish the block tower."

Check 1: Can you remind me, did they agree or disagree about what Cody wants? [child responds] Yeah, they agreed: They both said, "I think Cody *wants* Morgan to finish the block tower."

Based on this, what did Cody say to Morgan?

1. "Please finish my block tower." (direct request)
2. "My block tower is almost finished." (ambiguous utterance)

Test: So, which did Cody say to Morgan: 1 or 2? [child responds]

On a different day, Cody and Morgan were in the playroom. Cody said something to Morgan about the block tower.

Other people heard what Cody said, and thought about whether Cody wants Morgan to finish the block tower. The people disagreed: One said, “I think Cody *wants* Morgan to finish the block tower, but the other said, ‘Actually, I *don’t* think Cody wants that.’”

Check 2: Can you remind me, did they agree or disagree about what Cody wants? [child responds] Yeah, they disagreed: One said, “I think Cody *wants* Morgan to finish the block tower, but the other said, ‘Actually, I *don’t* think Cody wants that.’”

Based on this, what did Cody say to Morgan?

1. “Please finish my block tower.” (direct statement)
2. “My block tower is almost finished.” (ambiguous utterance)

Test: So, which did Cody say to Morgan: 1 or 2? [child responds]

**Story 3: Snowman, D/A.** Avery and Jordan were in the art room. Avery said something to Jordan about the snowman.

Other people heard what Avery said, and thought about whether Avery wants Jordan to draw on the snowman. The people disagreed: One said, “I think Avery *wants* Jordan to draw on the snowman, but the other said, ‘Actually, I *don’t* think Avery wants that.’”

Check 1: Can you remind me, did they agree or disagree about what Avery wants? [child responds] Yeah, they disagreed: One said, “I think Avery *wants* Jordan to draw on the snowman.” But the other said, “Actually, I *don’t* think Jordan wants that.”

Based on this, what did Avery say to Jordan?

1. “Please draw on my snowman.” (direct request)
2. “My snowman would look better if it was wearing something.” (ambiguous utterance)

Test: So, which did Avery say to Jordan: 1 or 2? [child responds]

On a different day, Avery and Jordan were in the art room. Avery said something to Jordan about the snowman.

Other people heard what Avery said, and thought about whether Avery wants Jordan to draw on the snowman. The people agreed: They both said, “I think Avery *wants* Jordan to draw on the snowman.”

Check 2: Can you remind me, did they agree or disagree about what Avery wants? [child responds] Yeah, they agreed: They both said, “I think Avery *wants* Jordan to draw on the snowman.”

Based on this, what did Avery say to Jordan?

1. “Please draw on my snowman.” (direct request)

2. “My snowman would look better if it was wearing something.” (ambiguous utterance)

Test: So, which did Avery say to Jordan: 1 or 2? [child responds]

**Story 4: Dog, A/D.** Bailey and Devin were at the dog park. Bailey said something to Devin about the dog.

Other people heard what Bailey said, and thought about whether Bailey wants Devin to feed the dog some treats. The people agreed: They both said, “I think Bailey *wants* Devin to feed the dog some treats.”

Check 1: Can you remind me, did they agree or disagree about what Bailey wants? [child responds] Yeah, they agreed: They both said, “I think Bailey *wants* Devin to feed the dog some treats.”

Based on this, what did Bailey say to Devin?

1. “Please feed my dog some treats.” (direct request)
2. “My dog eats so many treats.” (ambiguous utterance)

Test: So, which did Bailey say to Devin: 1 or 2? [child responds]

On a different day, Bailey and Devin were at the dog park. Bailey said something to Devin about the dog.

Other people heard what Bailey said, and thought about whether Bailey wants Devin to feed the dog some treats. The people disagreed: One said, “I think Bailey *wants* Devin to feed the dog some treats, but the other said, ‘Actually, I *don’t* think Bailey wants that.’”

Check 2: Can you remind me, did they agree or disagree about what Bailey wants? [child responds] Yeah, they disagreed: One said, “I think Bailey *wants* Devin to feed the dog some treats.” But the other said “Actually, I *don’t* think Bailey wants that.”

Based on this, what did Bailey say to Devin?

1. “Please feed my dog some treats.” (direct request)
2. “My dog eats so many treats.” (ambiguous utterance)

Test: So, which did Bailey say to Devin: 1 or 2? [child responds]

### **Inference Version 3: Positive Valence, ADAD, Dog to Wagon**

**Training Story.** Let’s play a guessing game! In this game you will guess what happened in a story. Let’s try one!

This person said something about animals. Then, I agreed, and said, “Yes, cats are the best animal!”

Test: What did this person say: 1. “Cats are the best animal” or 2. “Dogs are the best animal”? [child responds] Yeah, the person said “Cats are the best animal.”

On a different day, this person said something about animals. Then, I disagreed, and said, “Actually, dogs are *not* the best animal!”

Test: What did this person say: 1. “Cats are the best animal” or 2. “Dogs are the best animal”? [child responds] Yeah, the person said “Dogs are the best animal.”

That was practice! We will play the official guessing game four times all together. Let’s do the first one!

**Story 1: Dog, A/D.** Bailey and Devin were at the dog park. Bailey said something to Devin about the dog.

Other people heard what Bailey said, and thought about whether Bailey wants Devin to feed the dog some treats. The people agreed: They both said, “I think Bailey *wants* Devin to feed the dog some treats.”

Check 1: Can you remind me, did they agree or disagree about what Bailey wants? [child responds] Yeah, they agreed: They both said, “I think Bailey *wants* Devin to feed the dog some treats.”

Based on this, what did Bailey say to Devin?

1. “Please feed my dog some treats.” (direct request)
2. “My dog eats so many treats.” (ambiguous utterance)

Test: So, which did Bailey say to Devin: 1 or 2? [child responds]

On a different day, Bailey and Devin were at the dog park. Bailey said something to Devin about the dog.

Other people heard what Bailey said, and thought about whether Bailey wants Devin to feed the dog some treats. The people disagreed: One said, “I think Bailey *wants* Devin to feed the dog some treats, but the other said, ‘Actually, I *don’t* think Bailey wants that.’”

Check 2: Can you remind me, did they agree or disagree about what Bailey wants? [child responds] Yeah, they disagreed: One said, “I think Bailey *wants* Devin to feed the dog some treats.” But the other said “Actually, I *don’t* think Bailey wants that.”

Based on this, what did Bailey say to Devin?

1. “Please feed my dog some treats.” (direct request)
2. “My dog eats so many treats.” (ambiguous utterance)

Test: So, which did Bailey say to Devin: 1 or 2? [child responds]

**Story 2: Snowman, D/A.** Avery and Jordan were in the art room. Avery said something to Jordan about the snowman.

Other people heard what Avery said, and thought about whether Avery wants Jordan to draw on the snowman. The people disagreed: One said, “I think Avery *wants* Jordan to draw on the snowman, but the other said, ‘Actually, I *don’t* think Avery wants that.’”

Check 1: Can you remind me, did they agree or disagree about what Avery wants? [child responds] Yeah, they disagreed: One said, “I think Avery *wants* Jordan to draw on the snowman.” But the other said, “Actually, I *don’t* think Jordan wants that.”

Based on this, what did Avery say to Jordan?

1. "Please draw on my snowman." (direct request)
2. "My snowman would look better if it was wearing something." (ambiguous utterance)

Test: So, which did Avery say to Jordan: 1 or 2? [child responds]

On a different day, Avery and Jordan were in the art room. Avery said something to Jordan about the snowman.

Other people heard what Avery said, and thought about whether Avery wants Jordan to draw on the snowman. The people agreed: They both said, "I think Avery *wants* Jordan to draw on the snowman."

Check 2: Can you remind me, did they agree or disagree about what Avery wants? [child responds] Yeah, they agreed: They both said, "I think Avery *wants* Jordan to draw on the snowman."

Based on this, what did Avery say to Jordan?

1. "Please draw on my snowman." (direct request)
2. "My snowman would look better if it was wearing something." (ambiguous utterance)

Test: So, which did Avery say to Jordan: 1 or 2? [child responds]

**Story 3: Block tower, A/D.** Cody and Morgan were in the play room. Cody said something to Morgan about the block tower.

Other people heard what Cody said, and thought about whether Cody wants Morgan to finish the block tower. The people agreed: They both said, "I think Cody *wants* Morgan to finish the block tower."

Check 1: Can you remind me, did they agree or disagree about what Cody wants? [child responds] Yeah, they agreed: They both said, "I think Cody *wants* Morgan to finish the block tower."

Based on this, what did Cody say to Morgan?

1. "Please finish my block tower." (direct request)
2. "My block tower is almost finished." (ambiguous utterance)

Test: So, which did Cody say to Morgan: 1 or 2? [child responds]

On a different day, Cody and Morgan were in the playroom. Cody said something to Morgan about the block tower.

Other people heard what Cody said, and thought about whether Cody wants Morgan to finish the block tower. The people disagreed: One said, "I think Cody *wants* Morgan to finish the block tower, but the other said, 'Actually, I *don't* think Cody wants that.'"

Check 2: Can you remind me, did they agree or disagree about what Cody wants? [child responds] Yeah, they disagreed: One said, "I think Cody *wants* Morgan to finish the block tower, but the other said, 'Actually, I *don't* think Cody wants that.'"

Based on this, what did Cody say to Morgan?

1. “Please finish my block tower.” (direct statement)
2. “My block tower is almost finished.” (ambiguous utterance)

Test: So, which did Cody say to Morgan: 1 or 2? [child responds]

**Story 4: Wagon, D/A.** Sam and Robin were at the park. Sam said something to Robin about the wagon.

Other people heard what Sam said, and thought about whether Sam wants Robin to paint the wagon. The people disagreed: One said, “I think Sam *wants* Robin to paint the wagon, but the other said, ‘Actually, I *don’t* think Sam wants that.’”

Check 1: Can you remind me, did they agree or disagree about what Sam wants? [child responds] Yeah, they disagreed: One said, “I think Sam *wants* Robin to paint the wagon, but the other said, ‘Actually, I *don’t* think Sam wants that.’”

Based on this, what did Sam say to Robin?

1. “Please paint my wagon.” (direct request)
2. “My wagon would look better in a new color.” (ambiguous utterance)

Test: So, which did Sam say to Robin: 1 or 2? [child responds]

On a different day, Sam and Robin were at the park. Sam said something to Robin about the wagon.

Other people heard what Sam said, and thought about whether Sam wants Robin to paint the wagon. The people agreed: They both said, “I think Sam *wants* Robin to paint the wagon.”

Check 2: Can you remind me, did they agree or disagree about what Sam wants? [child responds] Yeah, they agreed: They both said, “I think Sam *wants* Robin to paint the wagon.”

Based on this, what did Sam say to Robin?

1. “Please paint my wagon.” (direct request)
2. “My wagon would look better in a new color.” (ambiguous utterance)

Test: So, which did Sam say to Robin: 1 or 2? [child responds]

#### **Inference Version 4: Positive Valence, DADA, Dog to Wagon**

**Training Story.** Let’s play a guessing game! In this game you will guess what happened in a story. Let’s try one!

This person said something about animals. Then, I agreed, and said, “Yes, cats are the best animal!”

Test: What did this person say: 1. “Cats are the best animal” or 2. “Dogs are the best animal”? [child responds] Yeah, the person said “Cats are the best animal.”



On a different day, this person said something about animals. Then, I disagreed, and said, “Actually, dogs are *not* the best animal!”

Test: What did this person say: 1. “Cats are the best animal” or 2. “Dogs are the best animal”? [child responds] Yeah, the person said “Dogs are the best animal.”

That was practice! We will play the official guessing game four times all together. Let’s do the first one!

**Story 1: Dog, D/A.** Bailey and Devin were at the dog park. Bailey said something to Devin about the dog.

Other people heard what Bailey said, and thought about whether Bailey wants Devin to feed the dog some treats. The people disagreed: One said, “I think Bailey *wants* Devin to feed the dog some treats, but the other said, ‘Actually, I *don’t* think Bailey wants that.’”

Check 1: Can you remind me, did they agree or disagree about what Bailey wants? [child responds] Yeah, they disagreed: One said, “I think Bailey *wants* Devin to feed the dog some treats, but the other said, ‘Actually, I *don’t* think Bailey wants that.’”

Based on this, what did Bailey say to Devin?

1. “Please feed my dog some treats.” (direct request)
2. “My dog eats so many treats.” (ambiguous utterance)

Test: So, which did Bailey say to Devin: 1 or 2? [child responds]

On a different day, Bailey and Devin were at the dog park. Bailey said something to Devin about the dog.

Other people heard what Bailey said, and thought about whether Bailey wants Devin to feed the dog some treats. The people agreed: They both said, “I think Bailey *wants* Devin to feed the dog some treats.”

Check 2: Can you remind me, did they agree or disagree about what Bailey wants? [child responds] Yeah, they agreed: They both said, “I think Bailey *wants* Devin to feed the dog some treats.”

Based on this, what did Bailey say to Devin?

1. “Please feed my dog some treats.” (direct request)
2. “My dog eats so many treats.” (ambiguous utterance)

Test: So, which did Bailey say to Devin: 1 or 2? [child responds]

**Story 2: Snowman, A/D.** Avery and Jordan were in the art room. Avery said something to Jordan about the snowman.

Other people heard what Avery said, and thought about whether Avery wants Jordan to draw on the snowman. The people agreed: They both said, “I think Avery *wants* Jordan to draw on the snowman.”

Check 1: Can you remind me, did they agree or disagree about what Avery wants? [child responds] Yeah, they agreed: They both said, “I think Avery *wants* Jordan to draw

on the snowman.”

Based on this, what did Avery say to Jordan?

1. “Please draw on my snowman.” (direct request)
2. “My snowman would look better if it was wearing something.” (ambiguous utterance)

Test: So, which did Avery say to Jordan: 1 or 2? [child responds]

On a different day, Avery and Jordan were in the art room. Avery said something to Jordan about the snowman.

Other people heard what Avery said, and thought about whether Avery wants Jordan to draw on the snowman. The people disagreed: One said, “I think Avery *wants* Jordan to draw on the snowman, but the other said, ‘Actually, I *don’t* think Avery wants that.’”

Check 2: Can you remind me, did they agree or disagree about what Avery wants? [child responds] Yeah, they disagreed: One said, “I think Avery *wants* Jordan to draw on the snowman,” but the other said, “Actually I *don’t* think Avery wants that.”

Based on this, what did Avery say to Jordan?

1. “Please draw on my snowman.” (direct request)
2. “My snowman would look better if it was wearing something.” (ambiguous utterance)

Test: So, which did Avery say to Jordan: 1 or 2? [child responds]

**Story 3: Block tower, D/A.** Cody and Morgan were in the play room. Cody said something to Morgan about the block tower.

Other people heard what Cody said, and thought about whether Cody wants Morgan to finish the block tower. The people disagreed: One said, “I think Cody *wants* Morgan to finish the block tower, but the other said, ‘Actually, I *don’t* think Cody wants that.’”

Check 1: Can you remind me, did they agree or disagree about what Cody wants? [child responds] Yeah, they disagreed: One said, “I think Cody *wants* Morgan to finish the block tower, but the other said, ‘Actually, I *don’t* think Cody wants that.’”

Based on this, what did Cody say to Morgan?

1. “Please finish my block tower.” (direct request)
2. “My block tower is almost finished.” (ambiguous utterance)

Test: So, which did Cody say to Morgan: 1 or 2? [child responds]

On a different day, Cody and Morgan were in the playroom. Cody said something to Morgan about the block tower.

Other people heard what Cody said, and thought about whether Cody wants Morgan to finish the block tower. The people agreed: They both said, “I think Cody *wants* Morgan to finish the block tower.”

Check 2: Can you remind me, did they agree or disagree about what Cody wants?

[child responds] Yeah, they agreed: They both said, “I think Cody *wants* Morgan to finish the block tower.”

Based on this, what did Cody say to Morgan?

1. “Please finish my block tower.” (direct statement)
2. “My block tower is almost finished.” (ambiguous utterance)

Test: So, which did Cody say to Morgan: 1 or 2? [child responds]

**Story 4: Wagon, A/D.** Sam and Robin were at the park. Sam said something to Robin about the wagon.

Other people heard what Sam said, and thought about whether Sam wants Robin to paint the wagon. The people agreed: They both said, “I think Sam *wants* Robin to paint the wagon.”

Check 1: Can you remind me, did they agree or disagree about what Sam wants? [child responds] Yeah, they agreed: They both said, “I think Sam *wants* Robin to paint the wagon.”

Based on this, what did Sam say to Robin?

1. “Please paint my wagon.” (direct request)
2. “My wagon would look better in a new color.” (ambiguous utterance)

Test: So, which did Sam say to Robin: 1 or 2? [child responds]

On a different day, Sam and Robin were at the park. Sam said something to Robin about the wagon.

Other people heard what Sam said, and thought about whether Sam wants Robin to paint the wagon. The people disagreed: One said, “I think Sam *wants* Robin to paint the wagon, but the other said, “Actually, I *don’t* think Sam wants that.”

Check 2: Can you remind me, did they agree or disagree about what Sam wants? [child responds] Yeah, they disagreed: One said, “I think Sam *wants* Robin to paint the wagon, but the other said, ‘Actually, I *don’t* think Sam wants that.’”

Based on this, what did Sam say to Robin?

1. “Please paint my wagon.” (direct request)
2. “My wagon would look better in a new color.” (ambiguous utterance)

Test: So, which did Sam say to Robin: 1 or 2? [child responds]

### **Inference Version 5: Negative Valence, ADAD, Wagon to Dog**

**Training Story.** Let’s play a guessing game! In this game you will guess what happened in a story. Let’s try one!

This person said something about animals. Then, I agreed, and said, “Yes, cats are *not* the best animal!”

Test: What did this person say: 1. “Cats are *not* the best animal” or 2. “Dogs are the *not* best animal”? [child responds] Yeah, the person said “Cats are *not* the best animal.”

On a different day, this person said something about animals. Then, I disagreed, and said, “Actually, dogs are the best animal!”

Test: What did this person say: 1. “Cats are *not* the best animal” or 2. “Dogs are *not* the best animal”? [child responds] Yeah, the person said “Dogs are *not* the best animal.”

That was practice! We will play the official guessing game four times all together. Let’s do the first one!

**Story 1: Wagon, A/D.** Sam and Robin were at the park. Sam said something to Robin about the wagon.

Other people heard what Sam said, and thought about whether Sam wants Robin to paint the wagon. The people agreed: They both said, “I *don’t* think Sam wants Robin to paint the wagon.”

Check 1: Can you remind me, did they agree or disagree about what Sam wants? [child responds] Yeah, they agreed: They both said, “I *don’t* think Sam wants Robin to paint the wagon.”

Based on this, what did Sam say to Robin?

1. “Please do not paint my wagon.” (direct request)
2. “My wagon would look better in a new color.” (ambiguous utterance)

Test: So, which did Sam say to Robin: 1 or 2? [child responds]

On a different day, Sam and Robin were at the park. Sam said something to Robin about the wagon.

Other people heard what Sam said, and thought about whether Sam wants Robin to paint the wagon. The people disagreed: One said, “I *don’t* think Sam wants Robin to paint the wagon, but the other said, ‘Actually, I think Sam *wants* that.’”

Check 2: Can you remind me, did they agree or disagree about what Sam wants? [child responds] Yeah, they disagreed: One said, “I *don’t* think Sam wants Robin to paint the wagon, but the other said, ‘Actually, I think Sam *wants* that.’”

Based on this, what did Sam say to Robin?

1. “Please do not paint my wagon.” (direct request)
2. “My wagon would look better in a new color.” (ambiguous utterance)

Test: So, which did Sam say to Robin: 1 or 2? [child responds]

**Story 2: Block tower, D/A.** Cody and Morgan were in the play room. Cody said something to Morgan about the block tower.

Other people heard what Cody said, and thought about whether Cody wants Morgan to finish the block tower. The people disagreed: One said, “I *don’t* think Cody wants Morgan to finish the block tower, but the other said, ‘Actually, I think Cody *wants* that.’”

Check 1: Can you remind me, did they agree or disagree about what Cody wants? [child responds] Yeah, they disagreed: One said, “I *don’t* think Cody wants Morgan to finish the block tower, but the other said, ‘Actually, I think Cody *wants* that.’”

Based on this, what did Cody say to Morgan?

1. “Please do not finish my block tower.” (direct request)
2. “My block tower is almost finished.” (ambiguous utterance)

Test: So, which did Cody say to Morgan: 1 or 2? [child responds]

On a different day, Cody and Morgan were in the playroom. Cody said something to Morgan about the block tower.

Other people heard what Cody said, and thought about whether Cody wants Morgan to finish the block tower. The people agreed: They both said, “I *don’t* think Cody wants Morgan to finish the block tower.”

Check 2: Can you remind me, did they agree or disagree about what Cody wants? [child responds] Yeah, they agreed: They both said, “I *don’t* think Cody wants Morgan to finish the block tower.”

Based on this, what did Cody say to Morgan?

1. “Please do not finish my block tower.” (direct statement)
2. “My block tower is almost finished.” (ambiguous utterance)

Test: So, which did Cody say to Morgan: 1 or 2? [child responds]

**Story 3: Snowman, A/D.** Avery and Jordan were in the art room. Avery said something to Jordan about the snowman.

Other people heard what Avery said, and thought about whether Avery wants Jordan to draw on the snowman. The people agreed: They both said, “I *don’t* think Avery wants Jordan to draw on the snowman.”

Check 1: Can you remind me, did they agree or disagree about what Avery wants? [child responds] Yeah, they agreed: They both said, “I *don’t* think Avery wants Jordan to draw on the snowman.”

Based on this, what did Avery say to Jordan?

1. “Please do not draw on my snowman.” (direct request)
2. “My snowman would look better if it was wearing something.” (ambiguous utterance)

Test: So, which did Avery say to Jordan: 1 or 2? [child responds]

On a different day, Avery and Jordan were in the art room. Avery said something to Jordan about the snowman.

Other people heard what Avery said, and thought about whether Avery wants Jordan to draw on the snowman. The people disagreed: One said, “I *don’t* think Avery wants Jordan to draw on the snowman, but the other said, ‘Actually, I think Avery *wants* that.’”

Check 2: Can you remind me, did they agree or disagree about what Avery wants? [child responds] Yeah, they disagreed: One said, “I *don’t* think Avery wants Jordan to draw on the snowman,” but the other said, “Actually I think Avery *wants* that.”

Based on this, what did Avery say to Jordan?

1. “Please do not draw on my snowman.” (direct request)
2. “My snowman would look better if it was wearing something.” (ambiguous utterance)

Test: So, which did Avery say to Jordan: 1 or 2? [child responds]

**Story 4: Dog, D/A.** Bailey and Devin were at the dog park. Bailey said something to Devin about the dog.

Other people heard what Bailey said, and thought about whether Bailey wants Devin to feed the dog some treats. The people disagreed: One said, “I *don’t* think Bailey wants Devin to feed the dog some treats, but the other said, ‘Actually, I think Bailey *wants* that.’”

Check 1: Can you remind me, did they agree or disagree about what Bailey wants? [child responds] Yeah, they disagreed: One said, “I *don’t* think Bailey wants Devin to feed the dog some treats, but the other said, ‘Actually, I think Bailey *wants* that.’”

Based on this, what did Bailey say to Devin?

1. “Please do not feed my dog.” (direct request)
2. “My dog eats so many treats.” (ambiguous utterance)

Test: So, which did Bailey say to Devin: 1 or 2? [child responds]

On a different day, Bailey and Devin were at the dog park. Bailey said something to Devin about the dog.

Other people heard what Bailey said, and thought about whether Bailey wants Devin to feed the dog some treats. The people agreed: They both said, “I *don’t* think Bailey wants Devin to feed the dog some treats.”

Check 2: Can you remind me, did they agree or disagree about what Bailey wants? [child responds] Yeah, they agreed: They both said, “I *don’t* think Bailey wants Devin to feed the dog some treats.”

Based on this, what did Bailey say to Devin?

1. “Please do not feed my dog.” (direct request)
2. “My dog eats so many treats.” (ambiguous utterance)

Test: So, which did Bailey say to Devin: 1 or 2? [child responds]

### Version 6: Negative Valence, DADA, Wagon to Dog

**Training Story.** Let’s play a guessing game! In this game you will guess what happened in a story. Let’s try one!

This person said something about animals. Then, I agreed, and said, “Yes, cats are *not* the best animal!”

Test: What did this person say: 1. “Cats are *not* the best animal” or 2. “Dogs are the *not* best animal”? [child responds] Yeah, the person said “Cats are *not* the best animal.”

On a different day, this person said something about animals. Then, I disagreed, and said, “Actually, dogs are the best animal!”

Test: What did this person say: 1. “Cats are *not* the best animal” or 2. “Dogs are *not* the best animal”? [child responds] Yeah, the person said “Dogs are *not* the best animal.”

That was practice! We will play the official guessing game four times all together. Let’s do the first one!

**Story 1: Wagon, D/A.** Sam and Robin were at the park. Sam said something to Robin about the wagon.

Other people heard what Sam said, and thought about whether Sam wants Robin to paint the wagon. The people disagreed: One said, “I *don’t* think Sam wants Robin to paint the wagon, but the other said, ‘Actually, I think Sam *wants* that.’”

Check 1: Can you remind me, did they agree or disagree about what Sam wants? [child responds] Yeah, they disagreed: One said, “I *don’t* think Sam wants Robin to paint the wagon, but the other said, ‘Actually, I think Sam *wants* that.’”

Based on this, what did Sam say to Robin?

1. “Please do not paint my wagon.” (direct request)
2. “My wagon would look better in a new color.” (ambiguous utterance)

Test: So, which did Sam say to Robin: 1 or 2? [child responds]

On a different day, Sam and Robin were at the park. Sam said something to Robin about the wagon.

Other people heard what Sam said, and thought about whether Sam wants Robin to paint the wagon. The people agreed: They both said, “I *don’t* think Sam wants Robin to paint the wagon.”

Check 2: Can you remind me, did they agree or disagree about what Sam wants? [child responds] Yeah, they agreed: They both said, “I *don’t* think Sam wants Robin to paint the wagon.”

Based on this, what did Sam say to Robin?

1. “Please do not paint my wagon.” (direct request)
2. “My wagon would look better in a new color.” (ambiguous utterance)

Test: So, which did Sam say to Robin: 1 or 2? [child responds]

**Story 2: Block tower, A/D.** Cody and Morgan were in the play room. Cody said something to Morgan about the block tower.

Other people heard what Cody said, and thought about whether Cody wants Morgan

to finish the block tower. The people agreed: They both said, “I *don’t* think Cody wants Morgan to finish the block tower.”

Check 1: Can you remind me, did they agree or disagree about what Cody wants? [child responds] Yeah, they agreed: They both said, “I *don’t* think Cody wants Morgan to finish the block tower.”

Based on this, what did Cody say to Morgan?

1. “Please do not finish my block tower.” (direct request)
2. “My block tower is almost finished.” (ambiguous utterance)

Test: So, which did Cody say to Morgan: 1 or 2? [child responds]

On a different day, Cody and Morgan were in the playroom. Cody said something to Morgan about the block tower.

Other people heard what Cody said, and thought about whether Cody wants Morgan to finish the block tower. The people disagreed: One said, “I *don’t* think Cody wants Morgan to finish the block tower, but the other said, ‘Actually, I think Cody *wants* that.’”

Check 2: Can you remind me, did they agree or disagree about what Cody wants? [child responds] Yeah, they disagreed: One said, “I *don’t* think Cody wants Morgan to finish the block tower, but the other said, ‘Actually, I think Cody *wants* that.’”

Based on this, what did Cody say to Morgan?

1. “Please do not finish my block tower.” (direct statement)
2. “My block tower is almost finished.” (ambiguous utterance)

Test: So, which did Cody say to Morgan: 1 or 2? [child responds]

**Story 3: Snowman, D/A.** Avery and Jordan were in the art room. Avery said something to Jordan about the snowman.

Other people heard what Avery said, and thought about whether Avery wants Jordan to draw on the snowman. The people disagreed: One said, “I *don’t* think Avery wants Jordan to draw on the snowman, but the other said, ‘Actually, I think Avery *wants* that.’”

Check 1: Can you remind me, did they agree or disagree about what Avery wants? [child responds] Yeah, they disagreed: One said, “I *don’t* think Avery wants Jordan to draw on the snowman, but the other said, ‘Actually, I think Avery *wants* that.’”

Based on this, what did Avery say to Jordan?

1. “Please do not draw on my snowman.” (direct request)
2. “My snowman would look better if it was wearing something.” (ambiguous utterance)

Test: So, which did Avery say to Jordan: 1 or 2? [child responds]

On a different day, Avery and Jordan were in the art room. Avery said something to Jordan about the snowman.

Other people heard what Avery said, and thought about whether Avery wants Jordan



to draw on the snowman. The people agreed: They both said, “I *don’t* think Avery wants Jordan to draw on the snowman.”

Check 2: Can you remind me, did they agree or disagree about what Avery wants? [child responds] Yeah, they agreed: They both said, “I *don’t* think Avery wants Jordan to draw on the snowman.”

Based on this, what did Avery say to Jordan?

1. “Please do not draw on my snowman.” (direct request)
2. “My snowman would look better if it was wearing something.” (ambiguous utterance)

Test: So, which did Avery say to Jordan: 1 or 2? [child responds]

**Story 4: Dog, A/D.** Bailey and Devin were at the dog park. Bailey said something to Devin about the dog.

Other people heard what Bailey said, and thought about whether Bailey wants Devin to feed the dog some treats. The people agreed: They both said, “I *don’t* think Bailey wants Devin to feed the dog some treats.”

Check 1: Can you remind me, did they agree or disagree about what Bailey wants? [child responds] Yeah, they agreed: They both said, “I *don’t* think Bailey wants Devin to feed the dog some treats.”

Based on this, what did Bailey say to Devin?

1. “Please do not feed my dog.” (direct request)
2. “My dog eats so many treats.” (ambiguous utterance)

Test: So, which did Bailey say to Devin: 1 or 2? [child responds]

On a different day, Bailey and Devin were at the dog park. Bailey said something to Devin about the dog.

Other people heard what Bailey said, and thought about whether Bailey wants Devin to feed the dog some treats. The people disagreed: One said, “I *don’t* think Bailey wants Devin to feed the dog some treats, but the other said, ‘Actually, I think Bailey *wants* that.’”

Check 2: Can you remind me, did they agree or disagree about what Bailey wants? [child responds] Yeah, they disagreed: One said, “I *don’t* think Bailey wants Devin to feed the dog some treats, but the other said, ‘Actually, I think Bailey *wants* that.’”

Based on this, what did Bailey say to Devin?

1. “Please do not feed my dog.” (direct request)
2. “My dog eats so many treats.” (ambiguous utterance)

Test: So, which did Bailey say to Devin: 1 or 2? [child responds]

**Version 7: Negative Valence, ADAD, Dog to Wagon**

**Training Story.** Let's play a guessing game! In this game you will guess what happened in a story. Let's try one!

This person said something about animals. Then, I agreed, and said, "Yes, cats are *not* the best animal!"

Test: What did this person say: 1. "Cats are *not* the best animal" or 2. "Dogs are the *not* best animal"? [child responds] Yeah, the person said "Cats are *not* the best animal."

On a different day, this person said something about animals. Then, I disagreed, and said, "Actually, dogs are the best animal!"

Test: What did this person say: 1. "Cats are *not* the best animal" or 2. "Dogs are *not* the best animal"? [child responds] Yeah, the person said "Dogs are *not* the best animal."

That was practice! We will play the official guessing game four times all together. Let's do the first one!

**Story 1: Dog, A/D.** Bailey and Devin were at the dog park. Bailey said something to Devin about the dog.

Other people heard what Bailey said, and thought about whether Bailey wants Devin to feed the dog some treats. The people agreed: They both said, "I *don't* think Bailey wants Devin to feed the dog some treats."

Check 1: Can you remind me, did they agree or disagree about what Bailey wants? [child responds] Yeah, they agreed: They both said, "I *don't* think Bailey wants Devin to feed the dog some treats."

Based on this, what did Bailey say to Devin?

1. "Please do not feed my dog." (direct request)
2. "My dog eats so many treats." (ambiguous utterance)

Test: So, which did Bailey say to Devin: 1 or 2? [child responds]

On a different day, Bailey and Devin were at the dog park. Bailey said something to Devin about the dog.

Other people heard what Bailey said, and thought about whether Bailey wants Devin to feed the dog some treats. The people disagreed: One said, "I *don't* think Bailey wants Devin to feed the dog some treats, but the other said, 'Actually, I think Bailey *wants* that.'"

Check 2: Can you remind me, did they agree or disagree about what Bailey wants? [child responds] Yeah, they disagreed: One said, "I *don't* think Bailey wants Devin to feed the dog some treats, but the other said, 'Actually, I think Bailey *wants* that.'"

Based on this, what did Bailey say to Devin?

1. "Please do not feed my dog." (direct request)
2. "My dog eats so many treats." (ambiguous utterance)

Test: So, which did Bailey say to Devin: 1 or 2? [child responds]

**Story 2: Snowman, D/A.** Avery and Jordan were in the art room. Avery said something to Jordan about the snowman.

Other people heard what Avery said, and thought about whether Avery wants Jordan to draw on the snowman. The people disagreed: One said, “I *don’t* think Avery wants Jordan to draw on the snowman, but the other said, ‘Actually, I think Avery *wants* that.’”

Check 1: Can you remind me, did they agree or disagree about what Avery wants? [child responds] Yeah, they disagreed: One said, “I *don’t* think Avery wants Jordan to draw on the snowman, but the other said, ‘Actually, I think Avery *wants* that.’”

Based on this, what did Avery say to Jordan?

1. “Please do not draw on my snowman.” (direct request)
2. “My snowman would look better if it was wearing something.” (ambiguous utterance)

Test: So, which did Avery say to Jordan: 1 or 2? [child responds]

On a different day, Avery and Jordan were in the art room. Avery said something to Jordan about the snowman.

Other people heard what Avery said, and thought about whether Avery wants Jordan to draw on the snowman. The people agreed: They both said, “I *don’t* think Avery wants Jordan to draw on the snowman.”

Check 2: Can you remind me, did they agree or disagree about what Avery wants? [child responds] Yeah, they agreed: They both said, “I *don’t* think Avery wants Jordan to draw on the snowman.”

Based on this, what did Avery say to Jordan?

1. “Please do not draw on my snowman.” (direct request)
2. “My snowman would look better if it was wearing something.” (ambiguous utterance)

Test: So, which did Avery say to Jordan: 1 or 2? [child responds]

**Story 3: Block tower, A/D.** Cody and Morgan were in the play room. Cody said something to Morgan about the block tower.

Other people heard what Cody said, and thought about whether Cody wants Morgan to finish the block tower. The people agreed: They both said, “I *don’t* think Cody wants Morgan to finish the block tower.”

Check 1: Can you remind me, did they agree or disagree about what Cody wants? [child responds] Yeah, they agreed: They both said, “I *don’t* think Cody wants Morgan to finish the block tower.”

Based on this, what did Cody say to Morgan?

1. “Please do not finish my block tower.” (direct request)
2. “My block tower is almost finished.” (ambiguous utterance)

Test: So, which did Cody say to Morgan: 1 or 2? [child responds]

On a different day, Cody and Morgan were in the playroom. Cody said something to Morgan about the block tower.

Other people heard what Cody said, and thought about whether Cody wants Morgan to finish the block tower. The people disagreed: One said, “I *don’t* think Cody wants Morgan to finish the block tower, but the other said, ‘Actually, I think Cody *wants* that.’”

Check 2: Can you remind me, did they agree or disagree about what Cody wants? [child responds] Yeah, they disagreed: One said, “I *don’t* think Cody wants Morgan to finish the block tower, but the other said, ‘Actually, I think Cody *wants* that.’”

Based on this, what did Cody say to Morgan?

1. “Please do not finish my block tower.” (direct statement)
2. “My block tower is almost finished.” (ambiguous utterance)

Test: So, which did Cody say to Morgan: 1 or 2? [child responds]

**Story 4: Wagon, D/A.** Sam and Robin were at the park. Sam said something to Robin about the wagon.

Other people heard what Sam said, and thought about whether Sam wants Robin to paint the wagon. The people disagreed: One said, “I *don’t* think Sam wants Robin to paint the wagon, but the other said, ‘Actually, I think Sam *wants* that.’”

Check 1: Can you remind me, did they agree or disagree about what Sam wants? [child responds] Yeah, they disagreed: One said, “I *don’t* think Sam wants Robin to paint the wagon, but the other said, ‘Actually, I think Sam *wants* that.’”

Based on this, what did Sam say to Robin?

1. “Please do not paint my wagon.” (direct request)
2. “My wagon would look better in a new color.” (ambiguous utterance)

Test: So, which did Sam say to Robin: 1 or 2? [child responds]

On a different day, Sam and Robin were at the park. Sam said something to Robin about the wagon.

Other people heard what Sam said, and thought about whether Sam wants Robin to paint the wagon. The people agreed: They both said, “I *don’t* think Sam wants Robin to paint the wagon.”

Check 2: Can you remind me, did they agree or disagree about what Sam wants? [child responds] Yeah, they agreed: They both said, “I *don’t* think Sam wants Robin to paint the wagon.”

Based on this, what did Sam say to Robin?

1. “Please do not paint my wagon.” (direct request)
2. “My wagon would look better in a new color.” (ambiguous utterance)

Test: So, which did Sam say to Robin: 1 or 2? [child responds]

**Version 8: Negative Valence, DADA, Dog to Wagon**

**Training Story.** Let's play a guessing game! In this game you will guess what happened in a story. Let's try one!

This person said something about animals. Then, I agreed, and said, "Yes, cats are *not* the best animal!"

Test: What did this person say: 1. "Cats are *not* the best animal" or 2. "Dogs are the *not* best animal"? [child responds] Yeah, the person said "Cats are *not* the best animal."

On a different day, this person said something about animals. Then, I disagreed, and said, "Actually, dogs are the best animal!"

Test: What did this person say: 1. "Cats are *not* the best animal" or 2. "Dogs are *not* the best animal"? [child responds] Yeah, the person said "Dogs are *not* the best animal."

That was practice! We will play the official guessing game four times all together. Let's do the first one!

**Story 1: Dog, D/A.** Bailey and Devin were at the dog park. Bailey said something to Devin about the dog.

Other people heard what Bailey said, and thought about whether Bailey wants Devin to feed the dog some treats. The people disagreed: One said, "I *don't* think Bailey wants Devin to feed the dog some treats, but the other said, 'Actually, I think Bailey *wants* that.'"

Check 1: Can you remind me, did they agree or disagree about what Bailey wants? [child responds] Yeah, they disagreed: One said, "I *don't* think Bailey wants Devin to feed the dog some treats, but the other said, 'Actually, I think Bailey *wants* that.'"

Based on this, what did Bailey say to Devin?

1. "Please do not feed my dog." (direct request)
2. "My dog eats so many treats." (ambiguous utterance)

Test: So, which did Bailey say to Devin: 1 or 2? [child responds]

On a different day, Bailey and Devin were at the dog park. Bailey said something to Devin about the dog.

Other people heard what Bailey said, and thought about whether Bailey wants Devin to feed the dog some treats. The people agreed: They both said, "I *don't* think Bailey wants Devin to feed the dog some treats."

Check 2: Can you remind me, did they agree or disagree about what Bailey wants? [child responds] Yeah, they agreed: They both said, "I *don't* think Bailey wants Devin to feed the dog some treats."

Based on this, what did Bailey say to Devin?

1. "Please do not feed my dog." (direct request)
2. "My dog eats so many treats." (ambiguous utterance)

Test: So, which did Bailey say to Devin: 1 or 2? [child responds]

**Story 2: Snowman, A/D.** Avery and Jordan were in the art room. Avery said something to Jordan about the snowman.

Other people heard what Avery said, and thought about whether Avery wants Jordan to draw on the snowman. The people agreed: They both said, “I *don’t* think Avery wants Jordan to draw on the snowman.”

Check 1: Can you remind me, did they agree or disagree about what Avery wants? [child responds] Yeah, they agreed: They both said, “I *don’t* think Avery wants Jordan to draw on the snowman.”

Based on this, what did Avery say to Jordan?

1. “Please do not draw on my snowman.” (direct request)
2. “My snowman would look better if it was wearing something.” (ambiguous utterance)

Test: So, which did Avery say to Jordan: 1 or 2? [child responds]

On a different day, Avery and Jordan were in the art room. Avery said something to Jordan about the snowman.

Other people heard what Avery said, and thought about whether Avery wants Jordan to draw on the snowman. The people disagreed: One said, “I *don’t* think Avery wants Jordan to draw on the snowman, but the other said, ‘Actually, I think Avery *wants* that.’”

Check 2: Can you remind me, did they agree or disagree about what Avery wants? [child responds] Yeah, they disagreed: One said, “I *don’t* think Avery wants Jordan to draw on the snowman,” but the other said, “Actually I think Avery *wants* that.”

Based on this, what did Avery say to Jordan?

1. “Please do not draw on my snowman.” (direct request)
2. “My snowman would look better if it was wearing something.” (ambiguous utterance)

Test: So, which did Avery say to Jordan: 1 or 2? [child responds]

**Story 3: Block tower, D/A.** Cody and Morgan were in the play room. Cody said something to Morgan about the block tower.

Other people heard what Cody said, and thought about whether Cody wants Morgan to finish the block tower. The people disagreed: One said, “I *don’t* think Cody wants Morgan to finish the block tower, but the other said, ‘Actually, I think Cody *wants* that.’”

Check 1: Can you remind me, did they agree or disagree about what Cody wants? [child responds] Yeah, they disagreed: One said, “I *don’t* think Cody wants Morgan to finish the block tower, but the other said, ‘Actually, I think Cody *wants* that.’”

Based on this, what did Cody say to Morgan?

1. “Please do not finish my block tower.” (direct request)
2. “My block tower is almost finished.” (ambiguous utterance)

Test: So, which did Cody say to Morgan: 1 or 2? [child responds]

On a different day, Cody and Morgan were in the playroom. Cody said something to Morgan about the block tower.

Other people heard what Cody said, and thought about whether Cody wants Morgan to finish the block tower. The people agreed: They both said, “I *don’t* think Cody wants Morgan to finish the block tower.”

Check 2: Can you remind me, did they agree or disagree about what Cody wants? [child responds] Yeah, they agreed: They both said, “I *don’t* think Cody wants Morgan to finish the block tower.”

Based on this, what did Cody say to Morgan?

1. “Please do not finish my block tower.” (direct statement)
2. “My block tower is almost finished.” (ambiguous utterance)

Test: So, which did Cody say to Morgan: 1 or 2? [child responds]

**Story 4: Wagon, A/D.** Sam and Robin were at the park. Sam said something to Robin about the wagon.

Other people heard what Sam said, and thought about whether Sam wants Robin to paint the wagon. The people agreed: They both said, “I *don’t* think Sam wants Robin to paint the wagon.”

Check 1: Can you remind me, did they agree or disagree about what Sam wants? [child responds] Yeah, they agreed: They both said, “I *don’t* think Sam wants Robin to paint the wagon.”

Based on this, what did Sam say to Robin?

1. “Please do not paint my wagon.” (direct request)
2. “My wagon would look better in a new color.” (ambiguous utterance)

Test: So, which did Sam say to Robin: 1 or 2? [child responds]

On a different day, Sam and Robin were at the park. Sam said something to Robin about the wagon.

Other people heard what Sam said, and thought about whether Sam wants Robin to paint the wagon. The people disagreed: One said, “I *don’t* think Sam wants Robin to paint the wagon, but the other said, ‘Actually, I think Sam *wants* that.’”

Check 2: Can you remind me, did they agree or disagree about what Sam wants? [child responds] Yeah, they disagreed: One said, “I *don’t* think Sam wants Robin to paint the wagon, but the other said, ‘Actually, I think Sam *wants* that.’”

Based on this, what did Sam say to Robin?

1. “Please do not paint my wagon.” (direct request)
2. “My wagon would look better in a new color.” (ambiguous utterance)

Test: So, which did Sam say to Robin: 1 or 2? [child responds]