**Script for Information Gain for Uncertain Belief**

**Part I. Assessment**

**Materials:**

Cover sheet, consent form

Materials for false belief assessment questions: Crayon box with keys, a bandaid box with pencils, two puppets

Storybooks for assessment questions

Slides for testing questions (correct counterbalanced version)

**Script**

All the characters (names and pictures) are gender neutral. Please use the proper pronouns to be consistent with the gender of the participant.

“Hello there, my name is \_\_\_\_ and I am going to read some story books with you and ask you some questions today! I want to understand how you think about things.”

“Alright, are you ready? Here we go!”

Assessment questions

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| --- | --- |
| 1. False belief 1 2. Psychosomatic 1 3. Germ 1 4. Checking question 1 5. Psychosomatic 2 6. Germ 2 7. False belief 2 8. Psychosomatic 3 9. Germ 3 10. checking question 2 11. Psychosomatic 4 12. Germ 4 13. Sally-Ann question 14. psychosomatic 5 15. Germ 5 16. Belief emotion 17. psychosomatic question 6 18. germ 6 19. checking question 3 | 1. germ 6 2. psychosomatic question 6 3. Belief emotion 4. Germ 5 5. psychosomatic 5 6. Sally-Ann question 7. Germ 4 8. Psychosomatic 4 9. checking question 2 10. Germ 3 11. Psychosomatic 3 12. False belief 2 13. Germ 2 14. Psychosomatic 2 15. Checking question 1 16. Germ 1 17. Psychosomatic 1 18. False belief 1 19. checking question 3 |

1. False belief 1

* “Here is a crayon box. What do you think is inside this box?”
* “Let’s see… it’s really keys inside!”“Okay, what is in the crayon box?”
* **“When you first saw this box, all closed up like this, before we opened it up -- what did you think was inside it then?”**
* “Okay -- and What is really inside the box?”
* “Look this is Kai - Kai has not seen this box before or opened it. This is the first time we are showing Kai the box.”
* **“When Kai first sees this box, all closed up like this, what will s/he think is inside it?”**
* “And then remind me, one last time -- What is really in the box?”

1. Psychosomatic 1

* This is Charlie. Charlie spills all his/her crayons in front of her class, and s/he feels embarrassed. Charlie has heard from her/his friend that if s/he feels embarrassed, her/his cheeks could turn pink.
* Can that happen? Can Charlie’s cheeks turn pink just from feeling embarrassed? Or can that not happen. Can Charlie’s cheeks not turn pink just from feeling embarrassed?

1. Germ 1

* This is Chris. Chris is sick and coughs badly.
* When s/he is in his/her classroom, s/he coughs on her/his friend’s face. Chris’ friend says that now s/he could get sick because Chris coughed on his/her face.
* Can that happen? Can Chris’ friend get sick just from being coughed on? Or can that not happen? Can Chris’ friend not get sick just from being coughed on?

1. checking question 1

* This is London. London’s friend Carter has a broken arm. London is going to visit Carter at her/his house. London’s friend says that s/he could have a broken arm just from visiting with Carter.
* Can that happen? Can London get a broken arm just from visiting Carter who has a broken arm? Or can that not happen. Can London not get a broken arm just from visiting Carter who has a broken arm?

1. Psychosomatic 2

* This is August. August is sad because her/his mom told her/him that s/he cannot have ice-cream. August heard from her/his friend that if s/he keeps being sad, s/he could get chest pain (That is, s/he could get a sore spot in her/his chest here.).
* Can that happen? Can August get chest pain just from feeling sad? Or can that not happen. Can August not get chest pain just from feeling sad?

1. Germ 2

* This is Dana. Dana has a cold. S/he’s having a yogurt with her/his spoon.
* Dana licks her/his spoon and offers her/his neighbor-friend some yogurt from her/his spoon. Dana’s neighbor says that s/he could get the cold because Dana licked her/his spoon and offered her/him some yogurt from the spoon.
* Can that happen? Can her/his neighbor get the cold just from sharing a spoon with Dana who has a cold? Or can that not happen? Can Dana’s neighbor not get the cold just from sharing a spoon with Dana who has a cold?

1. False belief 2

* “Here is a Band-Aid box. What do you think is inside this box?”
* “Let’s see… it’s really pencils inside” “Okay, what is inside the Band-aid box?”
* **“When you first saw this box, all closed up like this, before we opened it up -- what did you think was inside it then?”**
* “Okay -- and what is really inside the box?”
* “Look this is Sam - Sam has not seen this box before or opened it. This is the first time we are showing Sam the box.”
* **“When Sam first sees this box, all closed up like this, what will s/he think is inside it?”**
* “And then remind me, one last time -- What is really in the box?”

1. Psychosomatic 3

* This is Aiden. Aiden feels bored because s/he doesn’t have anything to do today. Aiden’s friend says that if s/he feels bored s/he could start to feel tired.
* Can that happen? Can Aiden feel tired just from feeling bored? Or can that not happen? Can Aiden not feel tired just from feeling bored?

1. Germ 3

* This is Casey. Casey has flu and has a bad headache.
* Casey uses his/her classmate water bottle in school. Casey’s classmate says that s/he could get the flu because Casey has the flu and used his/her water bottle.
* Can that happen? Can Casey’s classmate get the flu just from sharing a water bottle with Casey who has the flu? Or can that not happen? Can Casey’s classmate not get the flu just from sharing a water bottle with Casey who has the flu?

1. Checking question 2

* This is Gray. Gray is at the playground.
* Gray is throwing a ball. Gray is throwing the ball near a lake. Gray’ friend tells Gray that if s/he throws the ball into the water it will make a big splash.
* Can that happen? Can Gray make a splash just by throwing the ball into the water? Or can that not happen? Can Gray not make a splash just by throwing a ball into the water?

1. Psychosomatic 4

* This is Alex. Alex is Angry because a classmate took his/her toy away. Alex’s friend told him/her that if s/he feels angry, his/her fists might start to clench -- that is, it can feel like s/he’s squeezing her/his fingers really tight together like this.
* Can that happen? Can Alex’s fists clench just from feeling angry? Or can that not happen? Can Alex’s fists not clench just from feeling angry?

1. Germ 4

* This is Riley. Riley has a cold, so s/he has a stuffy nose.
* Riley’s friend comes over to play with her/him for a little while. Riley sneezes onto her/his friend. Riley’s friend says that now s/he could get a cold because Riley sneezed onto her/him.
* Can that happen? Can Riley’s friend get a cold just from being sneezed on? Or can that not happen? Can Riley’s friend not get a cold just from being sneezed on?

1. Sally-Ann question

* This is Jayden. Jayden has a chocolate.
* S/he wants to save it for later and puts the chocolate into the fridge. Jayden goes out for a walk.
* While Jayden is gone, her sister/his brother takes the chocolate out of the fridge and puts it into the cabinet. See that -- see how s/he’s moving it from the fridge to the cabinet while Jayden is away?
* So where did Jayden first put her/his chocolate?
* Now -- see this -- Jayden is coming back. S/he wants to eat his/her chocolate. **Can you tell me -- When Jayden comes back, where will s/he first go to look for his/her chocolate?**
* Can you remind me where is the chocolate really?

1. psychosomatic 5

* This is Ari. Ari is trying to solve a puzzle, but s/he fails. Ari feels frustrated. Ari has heard from his/her brother that if s/he feels frustrated s/he could start to get a headache
* Can that happen? Can Ari get a headache just from feeling frustrated? Or can that not happen. Can Ari not get a headache just from feeling frustrated?

1. Germ 5

* This is Jordan. Jordan has the flu, and s/he has a sore throat.
* Jordan’s cousin comes to her/his house to visit her/him. Jordan kisses her/his cousin. Jordan’s cousin says that now s/he could get flu because Jordan kissed her.
* Can that happen? Can Jordan’s cousin get flu just from being kissed by Jordan who has the flu? Or can that not happen? Can Jordan’s cousin not get the flu just from being kissed by Jordan who has the flu?

1. Belief emotion

* “Here is cheese crackers box and here is Kyle. What do you think is inside the cheese crackers box?” Kyle says: “Oh good, because I love cheese crackers. Cheese crackers are my favorite snack. Now I will go take a nap.”
* “See Kyle is taking a nap and can’t see or hear us right now.”
* “Let’s see. There are really rocks inside and no cheese crackers! There is nothing but rocks.”
* “Okay, what is Kyle’s favorite snack”(cheese crackers)
* Then Kyle comes back: “Kyle has never ever seen inside this box. Now here comes Kyle. Kyle is back and it’s snack time. Let's give Kyle this box. **So how does** Kyle **feel when he gets this box before s/he opens it? Happy or sad?**
* **How does Kyle feel after s/he looks inside the box? Happy or sad?**

1. psychosomatic question 6

* This is Blake. Blake sees a snake in her/his backyard, and s/he feels scared. Blake heard from her/his friend that s/he could start to get a stomach ache from being scared.
* Can that happen? Can Blake get stomach ache just from feeling scared? Or can that not happen, can Blake not get a stomach ache just from feeling scared?

1. germ 6

* This is Andy. Andy is sick and s/he has a running nose. Andy was invited to his/her friend’s party. Andy is sniffling a lot gets a tissue all wet with her/his runny nose.
* Andy’s friend then uses the tissue to wipe his/her mouth. When Andy’s friend finds out that s/he had wiped her mouth with the runny nose tissue, s/he says that s/he could get sick because she touched the running nose tissue.
* Can that happen? Can Andy’s friend get sick just from being touched by the runny nose tissue? Or can that not happen. Can Andy’s friend not get sick just from being touched by the runny nose tissue?

1. checking question 3

* This is Taylor. Taylor is in her/his backyard. Taylor is jumping rope. Taylor has been jumping rope for a long time. Taylor’s friend tells Taylor that if s/he keeps jumping rope s/he will get very tired.
* Can that happen? Can Taylor get tired just from jumping rope for a long time? Or can this not happen? Can Taylor not get tired just from jumping rope for a long time?

**Part II. Testing**

**The order of the three domains is counterbalanced.**

“Great job! Now we are going to read some new storybooks on computer. I’m going to need to help at the end of the stories”

ToM testing story (A1, A2)

Psychosomatic testing story (B1, B2)

Germ testing story (C1, C2)

A1B1C1

C2A1B1

B2C1A1

A1B2C2

C1A2B1

B1C2A2

A2B2C1

C2A2B2

B1C1A1

A1B1C2

C1A1B2

B2C2A1

A2B1C1

C2A2B1

B2C1A2

A2B2C2

C1A1B1

B1C2A1

A1B2C1

C2A1B2

B1C1A2

A2B1C2

C1A2B2

B2C2A2

“Fantastic! We are done with the book! You did such a fantastic job! Thank you so much for playing with me today! I hope you had fun too!”