			1				
	Experimental Confusion	0.1%					
	Productive Confusion	Condition A1					
	Unproductive Confusion Non Confusion	Condition A2 Condition B					
	A*	the Pepper robot	+				
	B*	the participant					
Sequence of states	Greeting & Introduction		CC1				The End
State BA1	Hello my friend, welcome back, I will ask 8 questions to	Condition B	Complex Information State A1	Insufficient Information State A1	Contradictory Information State A1	False Feedback State A1	A: Wow!!! Well done, we finished all conversations. Let's high-five [Pepper
	you, including some maths or	A*: All right, let's get started. Question 1, there	A: Let's try a challenge one,	A: Time is up, let's go ahead.	A: Hello my friend, let's try another question.	A: Hello my friend, this is the last question, are you ready?	show his right hand], yeah, yeah!! please
1 1	logic questions. If you don't know the answer, please ask	are 3 groups in the class, each group has 5	A: Question 5, Jessica plans to make 6 litres of blackberry soda and 2 litres	A: Question 6, Linda has 5 pieces of paper. Tommy gave her 1 more piece.	A: Question 7, Jackie earns €10 per hour. Last week, she worked	B: <user-response></user-response>	have a seat, my workmate Na Li will chat with you. Thank you very much, see you
	me to repeat it again, or you	students, how many students are there in the	of lemon-lime soda for the class party. She also plans to make 18 batches	Luis gave 3 pieces between Linda and James. Question is how many pieces of		A: There are 20 students in the orchestra and twice that number in the	(D b
	can give up answering	class? [Simple question]	of biscuits, 50 chocolate bars. She will buy 40 bags of crisps and 60 bags	paper does James have now?	Wednesday. She didn't work on Thursday, and then she worked 3	band. There are 16 boys and 30 girls in the choir. If each student only	
	anytime.	B*: <user-response> A: Yes, you are correct.</user-response>	of candy. Because of her budget issue, she can only buy 10 batches of biscuits and make 2 more litres of blueberry soda. One litre of soda will	B: <user-response> A: Repeat the whole question (twice maximum with user's response</user-response>	hours each for Thursday, and Friday. The question is how much money did Jackie earn in all last week?	participates in one group. The question is how many students in total are there for the band?	
		A: Yes, you are correct. A: Now you have one minute rest, in this short	serve 5.5 students at the party. The question is how many students can		B: <user-response></user-response>	B: <user-response></user-response>	
		break, please rate your confusion level for this	Jessica serve her soda to?		A: Repeat the whole question (observing whether it is hard for	A: Oh? aha!!! I have to say, could you please think about it again?	
		question.	B: <user-response></user-response>		participant to answer)	B: <user-response></user-response>	
			A: Repeat the whole question (twice maximum with user's response)	B: <user-response></user-response>	B: <user-response></user-response>	A: Repeat the whole question (twice maximum with user's response	
		Linda has 20 pieces of pencils. Tommy gave her	(observing whether it is hard for participant to answer)	A: Sorry, maybe this question has too much information. Let me give you the		(observing whether it is hard for participant to answer)	
		10 more pieces. How many pieces of pencils does		information step by step?	B: <user-response></user-response>	B: <user-response></user-response>	
		Linda have now? [Sufficient information] B: <user-response></user-response>	A: Hey my friend, do you need my help to answer this question? B: <user-response></user-response>	B: <user-response> A: First, Linda has 5 pieces of paper. Tommy gave her 1 more piece. Second,</user-response>	A: Sorry, maybe this question has too much information. Let me give you the information step by step?	A: Hey my friend, do you need my help to answer this question? B: <user-response></user-response>	
		A: Yes, you are correct.	A: I am sorry, maybe this question is too difficult, let's try again. First,	Luis gave 3 pieces between Linda and James. Hey my friend, is it clearer what		A: Sorry, maybe this question has too much information.	
1 1		A: Now you have one minute rest, in this short	Jessica plans to make 6 litres of blackberry soda and 2 litres of lemon-lime			A: There are 20 students in the orchestra and twice that number in the	
		break, please rate your confusion level for this	soda for the class party. Second, one litre of soda will serve 5.5 students at	B: <user-response></user-response>	on Monday, 7 hours on Tuesday, and 9 hours on Wednesday.	band. The question is how many students in total are there for the	
		question.	the party. Third, she also plans to make 18 batches of biscuits, 50		Third, she didn't work on Thursday, and she worked 3 hours each		
			chocolate bars. She will buy 40 bags of crisps and 60 bags of candy.	B: <user-response></user-response>	for Thursday and Friday. Hey my friend, can you follow me? The	B: <user-response> A: Yes. vou're correct.</user-response>	
			Fourth, Because of her budget issue, she can only buy 10 batches of	A: In fact, the information I gave is not enough for you to answer, becasue I said between them, you wasn't sure how many papers exactly James had, let's	question is how much money did Jackie earn in all last week?	A: Yes, you're correct. A: Well, thank you, please rate your confusion level for this question.	
		trousers that cost €10.	it still clear what I said?" (the speed of robot's speech is slow.)	try it again.	A: Wow, in fact, The question is unreasonable. I said she didn't	Don't forget to click submit when you finish this survey.	
		The question is how much money does John	B: <user-response></user-response>	B: <user-response></user-response>	work on Thursday, and she worked 3 hours each for Thursday and		
		have left to buy more clothes? [Consistent			Friday. So it doesn't have an answer.		
		information]	B: <user-response></user-response>		A: Let's try again. First, Jackie earns €10 per hour. Second, she		
		B: <user-response> A: Yes, you are correct.</user-response>	A: Yeah, you are correct. A: Now you have one minute rest, in this short break, please rate your	you follow me? B: <user-response></user-response>	worked 10 hours on Monday, 7 hours on Tuesday, and 9 hours on Wednesday. Third, she didn't work on Thursday, and she worked		
		A: Now you have one minute rest, in this short	confusion level for this question.		3 hours only for Friday. Hey my friend, can you follow me? The		
		break, please rate your confusion level for this	Total Control and question.	B: <user-response></user-response>	question is how much money did Jackie earn in all last week?		
		question.		A: Great, you are super.	B: <user-response></user-response>		
		A: Question 4, there are 10 boys and 30 girls in		A: Now you have one minute rest, in this short break, please rate your	A: Yes, you are correct.		
		the choir. How many students total are there in the choir? [Correct-positive Feedback]		confusion level for this question.	A: Now you have one minute rest, in this short break, please rate your confusion level for this question.		
		B: <user-response></user-response>			your confusion level for this question.		
1 1		A: Yes, you are correct.					
State BA2		A: Now you have one minute rest, in this short break, please rate your confusion level for this	Complex Information State A2	Insufficient Information State A2	Contradictory Information State A2	False Feedback State A2	
		question.	A: Let's try another question,	A: Time is up, the next question is,	A: Hello my friend, let's ask a question, are you ready?	A: Hello my friend, this is the last question, are you ready?	†
		_	A: Question 5, Emily went to the shopping centre with her mum. They	A: There were 100 animals in the zoo, 50 cats, 20 dogs, others were birds and		B: <user-response></user-response>	
1 1			started shopping at 3:30pm. First, they spent 1 hour in the shoe store. Then		A: Micheal bought 4 cups of ice cream and 2 cups of yoghurt.	A: There are 20 students in the orchestra and twice that number in the	
			they spent 1 hour shopping for a dress for Emily. Finally, they spent 45	B: <user-response> possible. Respond if needed.</user-response>	Each cup of ice cream cost €2 and each cup of yoghurt cost €1.	band. There are 10 boys and 30 girls in the choir. If each student only	
1 1			minutes eating dinner at the food court. The question is what time was it when Emily and her mother finished eating dinner?	A: Repeat the whole question (observing whether it is hard for participant to answer)	The question is how much did Micheal spend on ice cream less than on yoghurt?	participates in one group, the question is how many students total are there in the band?	
			B: <user-response></user-response>		than on yognurt? B: <user-response></user-response>	B: <user-response></user-response>	
1 1			A: Suddenly, Emily changed her plan. She wanted to go to an ice-cream	A: Hey friend, let me know your answer?	A: Hey friend, let me know your answer?	A: Repeat the whole question.	
			shop after dinner, and before watching a film at 7:30 pm. But they needed	B: <user-response></user-response>	B: <user-response></user-response>	B: <user-response></user-response>	
			to spend 20 minutes to go to the ice-cream shop, and 10 minutes to go to	A: In addition, 3 tigers had 3 baby tigers. The question still is how many tigers		A: Hmm, please think about it again.	
1 1			the cinema. Her mother didn't want to go with her, her mother wanted to have a cup of tea. At the same time. Emily's friend met her, her friend	are in the zoo. B: <user-response></user-response>	yoghurt than cups of milkshake. B: <user-response></user-response>	B: <user-response> A: You may be correct or not. <repeat again="" question="" this=""></repeat></user-response>	
			invited her to visit a Gallery in City Town. Her mother got a phone call		B: <user-response> A: Thank you for your response. I am sorry you may find it too</user-response>	A: You may be correct or not. <repeat again="" question="" this=""> B: <user-response></user-response></repeat>	
1 1			from her father to collect him from the bar, so the question is how long	zoo.	difficult to answer these questions. Do you still want to answer	A: I don't think you are correct, my friend.	
			can Emily enjoy her ice-cream in the ice-cream shop?	B: <user-response></user-response>	those questions?	B: <user-response></user-response>	
			B: <user-response></user-response>	A: Thank you for your response. I am sorry you may find it too difficult to	B: <user-response></user-response>	A: I am sorry, I still don't think you are correct. (give a false	
			A: Hey my friend, do you need me to repeat this question?	answer these questions. Do you still want to answer those questions?	A: Now you have one minute rest, in this short break, please rate	feedback), do you still want to answer those questions?	
			B: <user-response></user-response>	A: Now you have one minute rest, in this short break, please rate your	your confusion level for this question.	A: Now you have one minute rest, in this short break, please rate	
			A: Thank you for your response. I am sorry you may find it too difficult to answer these questions. Do you still want to answer those questions?	confusion level for this question.		your confusion level for this question.	
			B: <user-response></user-response>				
			A: Now you have one minute rest, in this short break, please rate your				
1 1			confusion level for this question.				
		<u>L</u>		<u> </u>			