

GestSAR Feedback Form

Thank you for participating in our assembly experiment! Your feedback is crucial for understanding your experience and improving our processes. Please take a few minutes to fill out this survey.

* Required

Section 1 : Demographics (Optional)

1. Age

2. Gender

- ☐ Woman
- ☐ Man
- ☐ Non-binary
- ☐ Prefer not to say

3. Occupation/Field of Study

Section 2: Experiment 1

Please fill out this section after completing the first assembly

4. Select the Assembly Type *

- ☐ Paper-based
- ☐ Tablet-based
- ☐ Projector-based

5. Mental Demand - How mentally demanding was the task based on the need for a lot of focus, memory use, thinking, mental tiredness, etc.? *

1	2	3	4	5
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Very Low

Very High

6. Temporal Demand - How hurried or rushed was the pace of the task? *

1	2	3	4	5
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Very Low

Very High

7. Performance - How successful were you in accomplishing what you were asked to do? *

1	2	3	4	5
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Very Low

Very High

8. Effort - How hard did you have to try to accomplish your level of performance? *

1	2	3	4	5
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Very Low

Very High

9. Frustration - How discouraged, irritated, stressed, and annoyed were you? *

1	2	3	4	5
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Very Low

Very High

10. Anything specific you felt challenging or helpful to accomplish this assembly?

11. Do you have any other comments or suggestions for improving the assembly process or instructions?

Section 3: Experiment 2

Please fill out this section after completing the second assembly

12. Select the Assembly Type

- ☐ Paper-based
- ☐ Tablet-based
- ☐ Projector-based

13. Mental Demand - How mentally demanding was the task based on the need for a lot of focus, memory use, thinking, mental tiredness, etc.? *

1	2	3	4	5
Very Low				Very High

14. Temporal Demand - How hurried or rushed was the pace of the task? *

1	2	3	4	5
Very Low				Very High

15. Performance - How successful were you in accomplishing what you were asked to do? *

1	2	3	4	5
Very Low				Very High

16. Effort - How hard did you have to try to accomplish your level of performance? *

1	2	3	4	5
Very Low				Very High

17. Frustration - How discouraged, irritated, stressed, and annoyed were you? *

1	2	3	4	5
Very Low				Very High

18. Anything specific you felt challenging or helpful to accomplish this assembly?

19. Do you have any other comments or suggestions for improving the assembly process or instructions?

Section 4 : Experiment 3

Please fill out this section after completing the third assembly

20. Select the Assembly Type

- ☐ Paper-based
- ☐ Tablet-based
- ☐ Projector-based

21. Mental Demand - How mentally demanding was the task? *

1	2	3	4	5
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Very Low Very High

22. Temporal Demand - How hurried or rushed was the pace of the task? *

1	2	3	4	5
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Very Low Very High

23. Performance - How successful were you in accomplishing what you were asked to do? *

1	2	3	4	5
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Very Low Very High

24. Effort - How hard did you have to try to accomplish your level of performance? *

1	2	3	4	5
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Very Low Very High

25. Frustration - How discouraged, irritated, stressed, and annoyed were you? *

1	2	3	4	5
---	---	---	---	---

Very Low Very High

26. Anything specific you felt challenging or helpful to accomplish this assembly?

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27. Do you have any other comments or suggestions for improving the assembly process or instructions?

Section 5 : Comparison Between Assemblies

Fill out this section after completing all eight assemblies.

28. Please rate the following aspects for each assembly **with paper-based** instructions *

	Strongly Agree	Agree	Undecided	Disagree	Strongly Disagree
The instructions provided were easy to understand.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The steps in the instructions were clearly outlined.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lego Bricks were quick to assemble with paper-based method.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am satisfied with the overall experience of using paper-based method.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

29. Please rate the following aspects for each assembly **with tablet-based** instructions *

	Strongly Agree	Agree	Undecided	Disagree	Strongly Disagree
The instructions provided were easy to understand.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The steps in the instructions were clearly outlined.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lego Bricks were quick to assemble with tablet-based method.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am satisfied with the overall experience of using tablet-based method.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

30.

Please rate the following aspects for each assembly **with projector-based** instructions *

	Strongly Agree	Agree	Undecided	Disagree	Disagree
The instructions provided were easy to understand.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The steps in the instructions were clearly outlined.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lego Bricks were quick to assemble with projector-based method.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am satisfied with the overall experience of using projector-based method.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

31. Which method did you find more effective for completing the assemblies? *

- ☐ With Projector-based Instructions
- ☐ With Tablet-based Instructions
- ☐ With Paper-based Instructions
- ☐ Other

32. How much did you rely on the projector-based instructions during the assembly tasks? *

- ☐ Entirely
- ☐ Mostly
- ☐ Somewhat
- ☐ Rarely
- ☐ Not at all

33. Please rate the following aspects of familiarity with **Assembly Tasks** *

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
I have prior experience with paper-based Lego Duplo tasks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I have prior experience with tablet-based Lego Duplo tasks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I have prior experience with projector-based assembly tasks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I have prior experience with Gesture-based assembly tasks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Section 6 : Feedback on in-situ projector-based work assistance

34. Projector-based work assistance is **easy to use**. *

1	2	3	4	5
Strongly Disagree			Strongly Agree	

35. Projector-based work assistance is **helpful**. *

1	2	3	4	5
Strongly Disagree			Strongly Agree	

36. Instructions and steps of the processes are **clear and easy** to understand *

1	2	3	4	5
Strongly Disagree			Strongly Agree	

37. Project-based assistance **allows me to complete assemblies independently** *

1	2	3	4	5
Strongly Disagree			Strongly Agree	

38. The projector system **simplifies** my work *

1	2	3	4	5
Strongly Disagree			Strongly Agree	

39. I **prefer** to work with **Projector-based system** than both **paper & tablet- based** assembly instructions *

1	2	3	4	5
Strongly Disagree			Strongly Agree	

40. To what extent do you agree with the following statement:

*The projector-based system **does not** cause any physical discomfort or health-related issues.* *

1	2	3	4	5
Strongly Disagree			Strongly Agree	

41. In your opinion, did the projector-based instructions reduce your assembly time compared to paper & tablet methods? *

- ☐ Yes
- ☐ No
- ☐ Maybe
- ☐ Other

42. What aspects of the projector-based instructions were most helpful? (Select all that apply) *

- ☐ Visual clarity of the steps
- ☐ Step-by-step guidance
- ☐ Highlighting of specific bins & placing location with light
- ☐ Animation of bins location in the steps
- ☐ Video demonstration of the step
- ☐ Realtime Gesture Display on Screen
- ☐ Audio feedback for successful grabs and gesture tracking loss
- ☐ Other

43. What aspects of the projector-based instructions could be improved?

Section 7 : Open Feedback

44. **What did you like most about participating in this experiment?**

45. **What challenges or frustrations did you encounter during the experiments?**

46. **Do you have any other comments or suggestions for improving the assembly process or instructions?**

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