



2026-2027 STEAM Fairs Experiment Project Description & Rubric Preschool

Project Overview:

Ask a question about the world around you and complete a simple experiment or observation to find an answer. Make a prediction, record what happens, and share what you learned in a logbook and on a display board.

Project Steps:

Keep track of each step of your project in your Engineering Notebook. Preschool notebooks may include student drawings, student writing, adult writing, and words dictated by the student.

1. Ask a Question

- Choose something you want to find out. Your question should be something you can answer by doing an experiment or making careful observations.

2. Make a Prediction

- Tell what you think will happen before you begin. Be ready to explain why you made that prediction.

3. Plan the Experiment

- Decide on materials, experiment procedure, what you will observe, count, measure, or compare and how you will keep the test fair.

4. Try it Out

- Complete the experiment or observation carefully. When possible, complete at least three trials or observations so you can see whether the same thing happens more than once.

5. Record What Happens

- Use drawings, tally marks, numbers, labels, photographs, or teacher-recorded notes to show what happened during each trial or observation.

6. Organize the Results

- Create a simple chart, graph, picture, or labeled drawing to help others understand the results.

7. Make a Conclusion

- Use the results to answer the original question. Think about what you learned, if your prediction was correct, what worked, what you would change, and if you have any new questions.

8. Create Your Display Board

- Use pictures, drawings, labels, charts, and short explanations to show the story of the experiment.

9. Practice Sharing Your Project

- Be ready to tell the judges about your project, the question you asked, your prediction, the materials you used, what happened when you tried your experiment, your results, and what you learned.

Tri-Fold Board Expectations:

Display boards can be a maximum 36" x 48" tri-fold board and must stand on its own

Experiment		
Preschool Display Board		
My Prediction	(Title) (Question)	Reflection
Procedures	Trials (Show pictures, drawings, and data with labels)	What did I learn?
		What would I do differently?

Logbook Expectations:

- Title and testable question
- Prediction
- Materials list and steps
- Drawings, notes, and charts
- Reflections (what worked, what you would change, new questions you have)

Preschool Logbook should be a combination of adult and student writing and/or drawing.



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Student Names:		Grade:		Sequence #:	
Teacher's Name		Project Title:			
Category	Exceeds Expectations	Meets Expectations	Approaching	Beginning	
Title & Question (10)	10 Has a creative title and clear question	8-9 Has a clear title and question	5-7 Has a title but question is unclear	0-4 No title or question	
Prediction (10)	10 Gives a thoughtful prediction and explains why	8-9 Gives a clear prediction	5-7 Gives a simple prediction	0-4 No prediction	
Procedure (15)	15 Steps are clear and easy to follow; includes materials	11-14 Steps are mostly clear	7-10 Some steps listed but unclear	0-6 No steps given	
Logbook (20)	20 Logbook has clear drawings, notes, or teacher dictation showing steps and results	15-19 Logbook has some drawings or notes	10-14 Logbook has few entries	0-9 Logbook missing or mostly empty	
Trials/Observations (10)	10 At least 3 tries/observations completed with care	8-9 At least 3 tries/observations done	5-7 Fewer than 3 tries/observations	0-4 No trials/observations completed	
Data & Charts (15)	15 Data shown with drawings, charts, or labels; colorful and clear	11-14 Data shown with some drawings or charts	7-10 Some data shown but unclear	0-6 Little or no data shown	
Conclusion & Reflection (10)	10 Shares what was learned, what worked, and surprises	8-9 Shares what was learned	5-7 Shares a little about what happened	0-4 Does not share what was learned	
Presentation (10)	10 Project is neat, colorful, and easy to understand	8-9 Project is neat and mostly complete	5-7 Project is messy or missing parts	0-4 Presentation missing or very messy	

****Students/Teachers are to complete the top portion of this form and make sure it is attached to the STEAM Fair project for judges to reference, all scores are entered through the shared digital scoring form.****