



2nd/3rd Grade – Inventions/Models (Focus: Science & Engineering)

Project Specifications

Wonderings: What invention do I want to create and learn about? How does it work? What problem does it solve? Why is it important?

Requirements: Create a model of your invention with an explanation of what it is, how it works, and what problem it solves. (NOTE: Does NOT have to be a working model)

Scientific Thinking/Model Design

Why did you create your model?

- Identify a purposeful question or problem which could be investigated
- Research the topic using 3 or more sources
- Create a model of your invention that solves a problem (Does not have to be a working model; prototypes are okay)

Research Plan (Scientific Process)

What is the description and procedure for building your model?

- Write the detailed procedure of how you built the model
- Write a detailed description of how the model works and why it is used.
- If applicable, who is the original inventor of your model, why did they invent it? When and where did they invent it?

Scientist's Data and Results Log

What were the obstacles faced during your creation?

- Include detailed notes about the building procedure, including obstacles you faced.
- Correctly measured and displayed data
- Explain why this was the best way to construct the model.

Visual/Digital Display

How will you share your model?

- The model may only occupy a space the size of a student's desktop (24" long and 15" deep). Anything larger must be approved by the teacher.
- Models may be mounted on a display board, cardboard/tagboard, or any reasonable manner that fulfills the size display requirements.
- Students must produce their own model and display that is organized and clearly communicates purpose.
- All pieces must be labeled and easily transportable.

Oral Presentation

How will you verbally explain your project?

- Must be 1-2 minutes and explain the purpose of the project and what was discovered.
- Presentations can be via video, but the student has to be the one explaining the model in the video, and student must be prepared to answer questions during the presentation.

***Please see scoring rubric for even more details.**