



## 2<sup>nd</sup>/3<sup>rd</sup> Grade - Model (prototype) of an Invention

(Focus: Science & Engineering)

### Project Specifications

**Wonderings:** What do I want to invent and make a model of? What problem does this model of invention solve? Why is it important?

**Requirements:** Create an invention/model with an explanation of what it is, how it works, and what problem it solves.

#### Scientific Thinking/Model Design

Why did you create your model of an invention?

- Identify a purposeful question or problem which could be investigated
- Research the topic using 3 or more sources
- create a model that solves a problem

#### Research Plan (Scientific Process)

What is the description and procedure for building your model of the invention?

- Write the detailed procedure of building the model of an invention.
- Write a detailed description of how the model of an invention works.

#### 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 of an invention?

- The model of an invention 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 of inventions 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 of an invention and display that is organized and clearly communicates purpose.

#### 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 of an invention in the video, and student must be prepared to answer questions during the presentation.

\*Please see scoring rubric on the back for even more details.