

## Maker Project Presentation

### **Student Objectives:**

1. You will show enthusiasm and you will be knowledgeable about your project topic.
2. You will discuss the process involved with creating your project. You will talk about what you learned from research, from prototyping and from testing your design.
3. You will talk about problems that came up and explain how you solved them.
4. You will explain your project and demonstrate how it works.

### **Instructions:**

Plan a five minute presentation to tell the class about your maker project(s):

- Show your completed project OR show photos and videos of your project.
- Show photos or videos of your project in progress.
- If your project does something, demonstrate and explain how it works.
- Be prepared to answer student and teacher questions about your project.

Answer these questions for each project you completed?

- Why did you choose this topic?
- What materials did you use?
- What was your original plan for this project?
- How did the final result differ from your original plan?
- What sort of research or learning did you need to do to complete this project?
- Who helped you with this project? What parts did they help with?
- What was the most challenging part of this project?
- Was there a time when you got stuck? How did you solve the problem?
- How long did you spend on this project? What parts took the most time?

## Marking Criteria

	<b>Not Meeting Expectations</b>	<b>Approaching Expectations</b>	<b>Meeting Expectations</b>	<b>Exceeding Expectations</b>
<b>Learning and Reflecting</b>	You do not mention anything about what you learned.	You explain one or two things that you learned but make no mention of how you learned.	You explain what you learned and you discuss what steps were needed when you got stuck.	You explain how you overcame many learning challenges through research, prototyping and testing.
<b>Communicating</b>	<p>You talk about your project but have nothing to show.</p> <p>Your presentation does not include photos or videos.</p> <p>Your presentation demonstrates very little knowledge about your project topic, most information is incomplete or inaccurate.</p> <p>You are not able to answer most questions about your project.</p>	<p>You are able to show a partially complete project.</p> <p>Your presentation includes one or two photos or videos that show part of project before it was completed.</p> <p>Your presentation demonstrates some knowledge about your project topic but some information is incomplete or inaccurate.</p> <p>You are able to answer a few questions about your project topic in a basic way.</p>	<p>You are able to show a completed project as part of your presentation.</p> <p>Your presentation includes a few photos or videos that show some steps of completing your project.</p> <p>Your presentation demonstrates accurate basic knowledge about your project topic.</p> <p>You confidently answer most questions about your project.</p>	<p>Your presentation includes a live demonstration of your project.</p> <p>Your presentation includes several photos or videos that show each step of completing your project.</p> <p>Your presentation demonstrates expert knowledge about your project topic.</p> <p>You confidently answer all questions about your project.</p>
<b>Final Project Result</b>	You may have attempted to start various projects but you were not able to see any through to completion due to lack of effort or focus.	<p>Your project could be improved by doing more research or testing or by putting in more effort.</p> <p>Your project mostly follows instructions found elsewhere.</p>	<p>Your project shows learning and effort.</p> <p>Your project follows instructions created by others but you have made some effort to add unique elements.</p>	<p>Your project is impressive and shows great learning and effort.</p> <p>Your project may be based on some instructions created by others but you have added many unique elements that make it your own.</p>

## **Core Competencies Assessed**

### **Participation:**

Demonstrate a sustained intellectual curiosity about a scientific topic or problem of personal interest\

Collaboratively plan a range of investigation types, including field work and experiments, to answer their questions or solve problems they have identified

Ensure that safety and ethical guidelines are followed in their investigations

### **Blog Reflections:**

Make predictions about what the findings of their inquiry will be

Communicate ideas, findings, and solutions to problems using scientific language, representations, and digital technologies as appropriate

Make observations aimed at identifying their own questions about the natural world-Identify possible sources of error and suggest improvements to their investigation methods

Identify possible sources of error and suggest improvements to their investigation methods

### **Final Project Presentation:**

Demonstrate a sustained intellectual curiosity about a scientific topic or problem of personal interest

Collaboratively plan a range of investigation types, including field work and experiments, to answer their questions or solve problems they have identified

Identify possible sources of error and suggest improvements to their investigation methods

Communicate ideas, findings, and solutions to problems using scientific language, representations, and digital technologies as appropriate