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**Station #6: The Invention Convention**

(20 point formative assessment)

**Unit Essential Question:**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Lesson Question:** How can I decide on a possible invention?

**Objective:** Students will explore the possibility of creating a new invention.

**What:** “Invention Convention”

**When:** TBA (To Be Announced)

**Where:** Bryant Middle School

**How:** Use of the scientific method

**Why:** Increase in critical thinking while having fun!

**Overview:**

It is our hope that the “Invention Convention” will teach problem-solving skills, builds self-esteem, and reward creativity.  Students will be introduced to the engineering-design process and prototype building while implementing the scientific method process.

You are going to attempt to solve a problem with an invention. Throughout the school year, you will receive instruction and guidance from your teacher as you conduct the scientific method.

At the end of May, your invention will be put on display during the school day. You will have the option of competing in the Bryant Middle School Science Fair to win prizes and share your invention with the community.

**Grading:**

The “check-points’ will be formative grades. At each due date, you will receive credit for the completed objective.

The presentation at the beginning of May will be a summative grade. Each objective will be graded for 20 formative points; the completed project will be graded for 100 summative points.

**The group leader should get their assigned Chromebook; go to the Farkas blog and click on the link to watch the Invention Convention Introduction Video:**

Check out <https://www.youtube.com/watch?v=1q5peAEZ4so>

1. What is the purpose of the Invention Convention? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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2. Identify two of the inventions presented in the video and explain their purpose:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**\_\_\_\_\_ teacher check-in**

**Invention Convention Objective #1: Identify the Problem/Ask a Question**

(20 point formative assessment)

**Part I Directions:** Think about a possible invention. Is there something you have always wanted to create? Is there a problem you know you can solve? A question you want to answer? In the column titled “Possible Inventions” list at least five possibilities. Check the columns if the idea is **I-** Interesting, **S**-Science related, **O**-will show observable changes, **T**-can be done in the 8 month time frame, and **M**- will produce measureable results.

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| --- | --- | --- | --- | --- | --- |
| **Possible Inventions** | **I** | **S** | **O** | **T** | **M** |
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1. Did any of your possible inventions get a check in all five columns? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ If yes, which ones?

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2. A good scientific question is based on careful observation and can be investigated. Describe how one of your possible inventions fit that description below:

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