

Name \_\_\_\_\_

Date \_\_\_\_\_

# STEM Design Challenge

## Brainstorm and Reflection Sheet



STEM design challenges are prompts that encourage learners to build something new for a specific reason or purpose. They include ideas from science, technology, engineering, and mathematics.

**Directions:** Complete this worksheet to help you think about your creation during your design process. Write down information or use check marks to show you have finished the step.

|   |   |               |
|---|---|---------------|
| <b>1. Plan:</b> Sketch or write about what you will create.   | <b>What is the challenge?</b>                               |               |
|   | <b>Materials:</b>   | <b>Ideas:</b> |
|   | <b>Blueprint:</b> Sketch what your creation will look like. |               |
| <b>2. Create:</b> Build your creation based on your plan.   |   |               |
| <b>3. Play:</b> Try out your creation. Swap with another person so they can try it too. Ask them what they would change to make your creation better. |   |               |

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4. **Adjust:** Make changes to your creation if you need to.

What changes did you make? Why?

5. **Share:** Show off your creation! Draw a picture of your finished design.

**... and Reflect:** Jot down notes about what you will share.

What worked for you? What was a challenge you had during your design process? What did you learn? How did you make changes based on what you learned?

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