

Name \_\_\_\_\_

## Be a Marble Genius!



**Problem:** Your challenge is to create a marble run. Your marble run needs to include no more than 30 pieces. Your goal is to have your marble reach the bottom in the SLOWEST time possible.

**Plan:** Consider the marble run pieces you have available to you and the problem you have before you. Think about how you will design your marble run. Draw a sketch of your design below and label it.

**Build:** Gather your materials and bring your design to life. Remember to consider the following requirements:

Did our marble run use no more than 30 marble run pieces?      YES                      NO

Can our marble run stand freely on its own?                      YES                      NO

**Test:** Get a marble from your teacher and test out your marble run. Reflect on your design.

TRIAL 1: Time: \_\_\_\_\_

TRIAL 2: Time: \_\_\_\_\_

TRIAL 3: Time: \_\_\_\_\_

TRIAL 4: Time: \_\_\_\_\_

**Redesign & Retest:** Make changes or improvements to your design and retest it.

1. What went well with your design?

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2. What was problematic with your design?

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3. How did you improve your design?

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**Present:** Be ready to demonstrate your marble run to your classmates.

**Reflect:** What design elements were most effective in creating a slow marble run?

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