SEP Think Tube Model Building Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A “Think Tube” is a cardboard mailing tube, string and washers as shown in the image.

A

B

C

D

What does the inside of the tube look like???

**Phase 1: Observation of a Think Tube**

After each demonstration, complete the table below.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Draw before and describe action | Draw result and describe motion | Proposed model Tube insides |
| Demo 1: |  |  |  |
| Demo 2: |  |  |  |
| Demo 3: |  |  |  |

**Phase 2: Construction of a Think Tube**

**Materials**

Cardboard tube

Steel Washers

String

Hole Punch

1. Based on your proposed model for the insides of the tube after all three demonstrations, design a Think Tube on a **whiteboard**.

2. Build and Test designs until you find one that matches the demonstration results.

3. Sketch your FINAL Think Tube design. Label with approximate lengths of string used, location of washers and paths of strings.

**Phase 3: Reflection**

1. Identify a CCC present in this activity and state evidence to support your claim. (More than one correct answer.)

2. Identify a SEP present in this activity and state evidence to support your claim. (More than one correct answer.)