

## **Sound Cups and What is Science?**

Date \_\_\_\_\_

1. Observe the cup that is given to you. What do you hear? How does it feel?
2. Communicate with others in the class. What does their cup feel and sound like? Can you find a match?
3. Hypothesize what is causing the sound and the feel inside. You and your partner will hypothesize **what** is in your cups, and **how many** of the objects are in the cup.
4. New Information: Based on the new information given to you, now hypothesize again...
5. Build a model in order to test your hypothesis.
  - a. Use the cups given to you and the possible contents to make a model of the Sound Cup.
  - b. Does your model behave in a similar manner? If not, try again until you are satisfied. List all of your trials here.

Trial 1:

Trial 2:

Trial 3:

## **What is Science?**

- I. Brainstorm: What kinds of things have you LEARNED in science class?
- II. Brainstorm: What kinds of things have you DONE in science class?

III. Share your list with your elbow partner. Together, come up with a definition of Science:  
**Science is...**

IV. Accepted Definition of Science. **Science is...**

**Video: Watch, Write, Discuss:**

<https://www.youtube.com/watch?v=Gw7Q14XYRzg>

1. Watch the video considering the guiding questions: “*What kinds of things can be explored with science? What kinds of things cannot be explored with science?*”
  - a. Spend two minutes answering the question after watching.

**Sound Cups and Science?**

1. How was the Sound cup activity similar to actual science, based on our accepted definition?
2. How was the sound up activity not like science, based on our accepted definition?