**Mystery Shakers (20 min)**

**Materials**

* Pre-made Mystery Shakers
* Pens
* LOTS of Craft Rolls
* Colored Masking Tape
* Natural Material Option Trays

(Can be done with adult caregivers or parents without children)

**Explain**

* Purpose of this activity is to excite YOUR curiosity
* Work in pairs or small groups.
* Will give you a mystery shaker.
* You may not open it. No prying or peeking.
* The purpose of this activity will be to ignite your curiosity and to practice scientific processes.
* This activity will have steps, we will do each step together as a group. I will stop at intervals and give you the next direction.

Say

*(1) First, shake it! Up and down. Side to side. In circles? How else could you shake it? Based on the sound you hear, what do you think is inside? Now try to smell it? Based on the scent, what do you think is inside? Try and think of as many possibilities as you can!*

* Handout mystery shakers.

*(2) Now we’re moving on to part 2. I want you to write down things you think might be in it AND draw a picture of what you really think is inside.*

* Circulate around the room. Pass out clipboards and pens.

*(3) Compare ideas with your neighbor. Decide together what you think is inside. Draw a picture.*

*(4) Now we’re moving on to part 4. Reverse engineering! Hand out empty tubes and place options out. Can you recreate the sound in your shaker?*

*(5)* Optional hint: *There are two types of objects in your tube. Start over if you need to!*

*(6)* Transition the group to discussion.

Debrief questions

* How was that for you? How did it feel not knowing the answer?
* What was it like to first have time to experiment?
* Did you feel curious? How did it feel to be curious?
* What was it like when I passed out the clipboards and you got to represent your ideas on paper?
* What was it like to share your ideas with your neighbor and work together to figure out what was inside?
* Did you practice any early science skills?