

NGSS 2-PS1-1. Plan and conduct an investigation to describe and classify different kinds of materials by their observable properties.

Gr 2 Science Experiment: **Things at home can teach us about science!**

Phenomena: **Candy Science**

You need: 4 M&M's of different colors water bowl

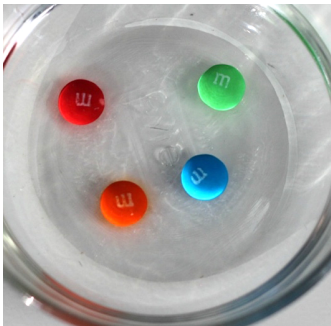


**Step 1** Get 4 M&M's. Look at and feel the M&Ms. Write down what you see and feel on the lines below.

I see ~ *maka nānā* I notice. I observe.  and feel ~ *hāhā*

- 1) \_\_\_\_\_
- 2) \_\_\_\_\_
- 3) \_\_\_\_\_
- 4) \_\_\_\_\_

**Step 2** I think ~ *Mana`o* Prediction or Hypothesis



What might happen to the M&M's if they are put in water? Why might that happen?

**because** (Kumu's favorite word, explain your thinking)

I predict the M&Ms will \_\_\_\_\_

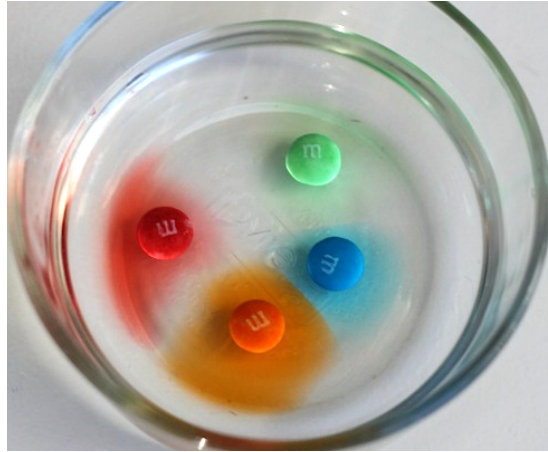
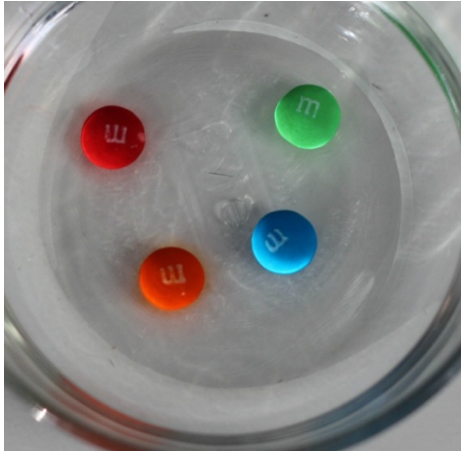
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## Step 3 Experiment



- 1) Pour some water into the bowl.
- 2) Add the 4 M&Ms with the **m** side up.
- 3) Check the M&Ms every 2 minutes and write down the changes you see happening.

### Experiment Results:

I see ~ maka nānā  I notice. I observe.

2 minutes \_\_\_\_\_

4 minutes \_\_\_\_\_

6 minutes \_\_\_\_\_

8 minutes \_\_\_\_\_

10 minutes \_\_\_\_\_

**Put the M&M's in your mouth! Yum!**

Are there any other changes that you notice?

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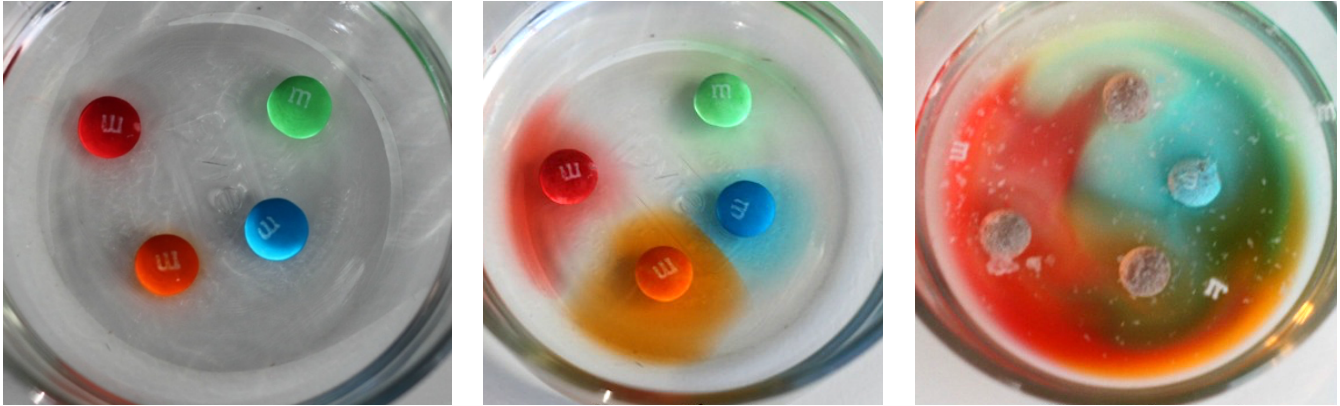
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Gathering Information About the Phenomena: To Dissolve

Let's review *dissolve*, which we learned about when making borax crystals.

Some things **dissolve** in water, or melt away as if it disappears.  
Sugar dissolves in water very easily.



What part of the M&M's dissolved faster? Why did that part dissolve faster?

\*If you're not too sure, find the answer is below\*

I didn't know before, but now I know...

I learned **dissolve** \_\_\_\_\_

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The colors of the M&M's dissolved faster, not only because the water touched it first, but, because the coloring is made of sugar and sugar dissolves easily in water.

## Compare different materials! If you'd like to.

Here are some other materials to try and see if they will dissolve in water. Add each material into separate cups of water. Use a spoon to stir the water, then see which materials will dissolve. Explain why some materials dissolved in water and why you think some didn't.

### Dissolve Experiments

**You need:** a half-filled cup of water for each material, spoon, 1/2 teaspoon (measuring spoon)

**What to do:** Test one material at a time. Add 1/2 teaspoon of material to a cup and stir.

Materials:	Yes, it did dissolve, because ____	No, it didn't dissolve, because ____
Sugar		
Salt		
Baking Soda		
Sand		
Flour		
Black Pepper		