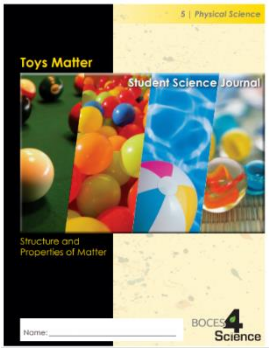
Toys Matter

Grade 5

BOCES 4 Science



1. **Secret Property:** Gather a collection of objects that share 1 property in common. Challenge someone at home to guess the property you used!

(HINT: A property is a characteristic of a substance; i.e. color, shape, texture, etc.)

2. **Feel It Bag:** Find 2 more players at home and take turns doing the following…

   Player 1: Place a mystery item into a paper bag.
   Player 2: Without looking, touch the item in the bag and describe it to Player 3.
   Player 3: Guess what the item is based on the properties being described.

3. **Property Wizard:** Read this book online. It describes a game for you to play.

(NOTE: Book is written at 2nd grade reading level.)

https://drive.google.com/file/d/1hEd4LatQoMqyx6iyhALFe5QFZu9TGs2i/view

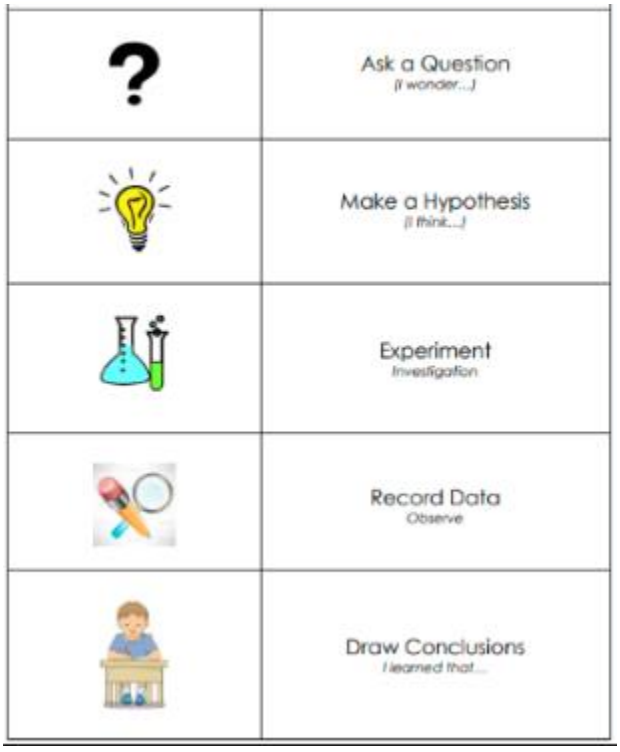
4. **Sweaty Cups:** Follow the steps below to demonstrate that matter is made of particles that are too small to be seen…

a. Observe the water droplets on the cup in the photo. Where did they come from?

b. Design an investigation to find out! Optional materials: plastic cup, plastic baggie, water (cold, room temperature, and/or hot), ice cubes, etc.

c. To check your understanding, watch this video:

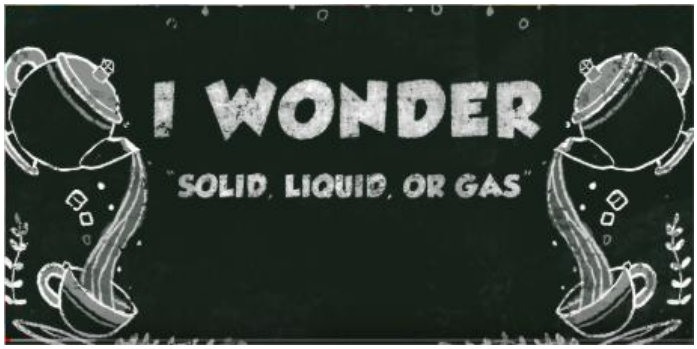
https://www.youtube.com/watch?v=XpPc3egw74k



5. **Jumping Quarters:** Place an open, empty, old-fashion glass Coca Cola (or other brand) bottle into the freezer. When you remove the bottle from the freezer, place some drops of water and a quarter on top of the mouthpiece opening and carefully observe what happens when you wrap your hands around the bottle.

   Create a model to explain the phenomenon you observe, taking the energy of the particles in each phase of matter into account. Need help? Watch this video:

   https://www.youtube.com/watch?v=v-WZa80ttYw



6. **Sandman:** Is sand a solid or a liquid? Observe the photos below, and if possible, exploring the properties of sand on your own. Then, tell someone at home the evidence that supports your argument about how sand should be classified, or write a Claim Evidence Reasoning (CER) and e-mail it to your teacher!

		
Pouring Sand	Sand Taking the Shape of its Container	Magnified Grains of Sand

7. **Dichotomous Keys:** Try these!

https://drive.google.com/file/d/1p3XJoykyt17O-QMY-6E1zD-vaUU6YK7C/view

8. **The Mass of Matter:** Read the article, then answer the question by discussing with someone at home or e-mailing your teacher!

https://drive.google.com/file/d/1Nwpb6Eq1Z18NU-n9RJ4HSvYi_CJOKxWS/view