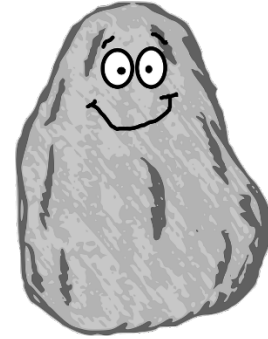




Living vs Non-Living

Gather

- pencil/pen
- two identical glass cups/beakers
- yeast
- sand
- masking tape
- tablespoons
- room temperature sugary liquid (apple juice, sugar water)



Let's Experiment!

1. Brainstorm ways to know if something is alive. Look at the yeast and the sand and try to determine if they are alive by using your criteria.
2. Label one glass A and add 1 Tbsp of yeast. Label the other B and add 1 Tbsp of sand.
3. Examine the contents of each glass and predict what will happen in each glass when the sugary liquid is added.
4. Add 2 Tb of the sugary liquid to each glass. Observe what happens in each glass over the course of 10-15 minutes.
5. Look at your original criteria for what "alive" is. How has it changed now that you've seen the differences in each beaker? What was the purpose of giving each a sugary liquid?

How Does it Work?

The world is made up of both **living** and **non-living** things. In order for something to be classified as **living**, it must be made of cells, grow and develop, use energy, reproduce, respond to its environment, and adapt. There are LOTS of living things, so we organize them into six broad groups called kingdoms: Plants, Animals, Fungi, Protista, Archaeobacteria, and Eubacteria. For more information, visit:

<https://youtu.be/giWqEPNLtBo>

<https://www.youtube.com/watch?v=aH5ST8gmSCU>

Take it Further!

Go outside and take a nature walk, even if it's along your neighborhood sidewalks. Try to find ten things that ARE alive and ten things that are NOT alive. Is one group harder to find than another? What do all of the living things have in common? What do all of the nonliving things have in common?