

Year 6 Science Activities

Rubbery Egg

Materials:

- 1 egg
- Drinking glass
- Vinegar

Steps:

1. Gently place the egg into the glass.
2. Pour vinegar over the egg to completely cover it. You can also add food colouring if you would like a colourful egg.
3. Wait 7 days. Take the egg out of the glass and feel the shell.
4. The egg should bounce but be careful as it can be messy if it breaks.
5. Record your observations explain if this is a reversible or irreversible change.

Baking, Yum!

Click on the link and watch the video:

https://www.youtube.com/watch?v=37pir0ej_SE

What are the signs of chemical change when baking a cake? Ask your carer if you can bake your own cake to observe the chemical changes.

Help Cook Dinner

List the physical and chemical changes. Select one physical change and one chemical change you observed and explain if it is reversible or not and why.

Rusty Wool

Materials:

- Steel wool (not the soapy kind)
- 3 jars
- Water
- Salt
- Cooking oil

Steps:

1. Place a small ball of steel wool (bouncy ball size) into each jar.
2. Cover one with plain water, one with a mixture of salt and water, one with cooking oil.
3. Leave to sit for at least one week, record your observations of any changes each day. Which wool rusted the fastest? Why?
4. Watch the video below and explain if rusting is a physical or chemical change:
<https://www.acs.org/content/acs/en/pressroom/reactions/videos/2016/why-does-metal-rust.html>

Colourful Sugar

Materials:

- 4 teaspoons of sugar
- 20 teaspoons of water
- Food dye
- Bowl
- Sunny spot

Steps:

1. Stir the sugar into the water until it dissolves (disappears).
2. Add a few drops of food dye.
3. Leave the bowl in a sunny spot for a few days.
4. Record what happens and identify if it is a chemical or physical change. Can it be reversed? How?

All About Mixtures

Click on the link and watch the video:

<http://studyjams.scholastic.com/studyjams/jams/science/matter/mixtures.htm>

Take notes about mixtures. Explain which types of mixtures are physical changes that can be reversed and how.