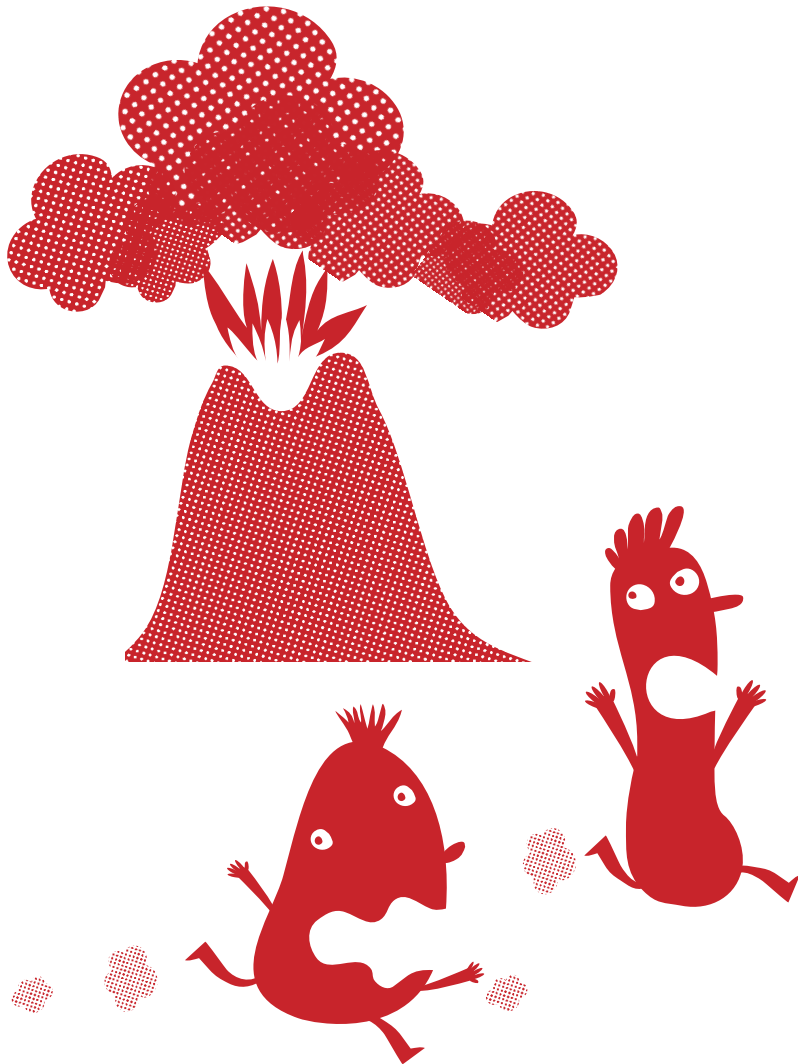


Erupting volcano

Concept—Chemical energy



CURRICULUM LINK:

Science Curriculum—Designing and Making

Experiment

You will need:

- Salt
- Flour
- Cooking oil
- Water
- Bowl
- Plastic bottle
- Baking tray
- Red food colouring
- Washing-up liquid
- Baking soda
- Vinegar

To make 'salt dough'

Mix 6 cups of flour, 2 cups of salt, 4 tablespoons of cooking oil and 2 cups of water in a large bowl.

Volcano

1. Fill the plastic bottle half-full with warm water and add a few drops of red food colouring.
2. Put a squeeze of washing-up liquid into the bottle.
3. Add two tablespoons of baking soda (you may need to use a funnel).
4. Stand the plastic bottle on the baking tray and mould the dough around the bottle, keeping the top open.
5. Slowly pour the vinegar into the bottle and watch your volcano explode.

When bread soda and vinegar mix there is a chemical reaction and the stored chemical energy is released. Carbon dioxide gas is formed and causes the red mixture to foam out of the bottle.

Do more:

Find other materials to build your volcano shape—you could use papier mâché.