

GRADE LEVEL
Middle School

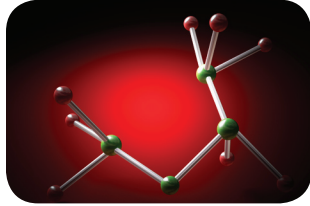
SCIENCE CONTENT STATEMENT ADDRESSED
Physical Science

Matter and Motion

Changes of state are explained by a model of matter composed of atoms and/or molecules that are in motion.

OVERVIEW

Students create a model that show the movement of molecules in the three states of matter. As an extension, students could produce a video showing how their models the movement of molecules in different states.



STATES OF MATTER

MATERIALS

Not all required – these are possible materials that students may want to choose from, but they just might see something we don't that they will use for their model.

- gum drops
- miniature marshmallows
- Cotton balls
- Styrofoam balls
- Play Dough
- Clay
- Toothpicks
- Straws
- Duct Tape
- Masking Tape

Optional

- iPad
- Phone or other device to record

PROCEDURE

- Working in pairs students will create a model that shows the movement of molecules in the three states of matter.
- Students will draw a sketch of their prototype first.

EXTENSION

This Maker activity lends itself well to creating a Stop Action Motion of the concept using their prototypes.

Here are some free easy to use apps for a Stop Motion. Make sure students do a story board before filming their Stop Action Motion.

Stop Motion Cafe

Lego Movie Maker

POST-PROJECT CLASSROOM DISCUSSION/ACTIVITIES

What other ways could you design the three states of Matter?