

Purpose & SOL

- Characteristics including mass, volume, and phase changes of solids, liquids, and gases
- Science K.6, 2.3

Materials

- Download the free solid, liquid, gas pictures here:
<https://www.teacherspayteachers.com/Product/Matter-Free-959341>
- Chart with headings to sort pictures
- Cones to establish boundaries

Length
20 min.

Introduction

Students will review the three states of matter and what each looks like. The teacher will teach the body positions for each vocabulary word (use these throughout the lesson) solid: stand straight and stiff, like a statue; liquid: your body wiggles and takes different shapes, but arms and legs only separate slightly; gas: arms, legs and body all move around and separate.

Implementation

Exercise the Answer

- 1) After a brief review of the states of matter, the teacher will have the entire class work together to be the states of matter. They will start as a tight circle to represent a solid, they will separate and become a liquid and then separate very throughout the entire room to represent a gas.
- 2) Then, the teacher will show students a picture from each of the states of matter and ask them to sort.
- 3) Then, each state will be associated with a movement:
Solid: will make very stiff, loud movements, stay close together
Liquid: move like a jellyfish, no firm control of arms and legs, farther apart
Gas: move with much freedom, farthest apart, like you are drifting through the air
- 4) Students will take turns choosing a card with a state of matter on it. They will sort the card and instruct the class to act as if they were a solid, liquid, or gas.
- 5) Play will continue until all of the cards have been chosen and correctly sorted.
- 6) To close, the teacher will review each of the 3 states of matter and have students go through the process with their body (start as a solid ice cube, melt into a puddle of water, and then evaporate into the air as a gas).

Cool Down

The teacher will close the lesson by having students act out each state of matter one time, take 3 deep breaths, and quietly return to their desks.

Modifications

You can also make this into a relay format where each student is on a team.



Solid

**stiff, loud, movements,
close together**

liquid

move like a jellyfish, further
apart, fluid movements

Gas

move freely, further apart,

like drifting through air

Solid



Gas