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MOLECULES MATTER

Question to investigate:

- Does water hold together well or come apart easily?

KEY IDEAS:

Chemistry: The study of matter and what matter does.

Matter: 3 common types- solid, liquid, and gas.

KEY IDEAS, CONTINUED…..

Atoms and molecules:

An atom is the smallest building block of matter and a molecule is two or more atoms.

The rest of the key ideas will be finished at the end of the activity.

ACTIVITY:

- Do the activity as directed on the page called Molecules Matter, up to the demonstration. (15 minutes)

- We will finish the Key Ideas after the activity and demonstration.

QUESTIONS ABOUT ACTIVITY:

- When you squeezed the drop of water out of the dropper, did the water break apart or did it hold together?
- When you tilted the wax paper, did the drop split apart or stay together?
- When you were pulling the drop around the wax paper, did the water seem to hold together or come apart easily?
- When you tried to split your drop, did the drop split easily?
- What happened with the two small drops touched?

DEMONSTRATION

- Observe your teacher as he does the demonstration. You will be drawing the food coloring in the water in the Demonstration section of your lab paper.
- Draw 5 seconds after it was dropped.
- Wait a minute, and draw it again.

- How do your observations support the idea that water molecules are moving?

Animation of the molecules in liquid water:

Particles of a liquid.

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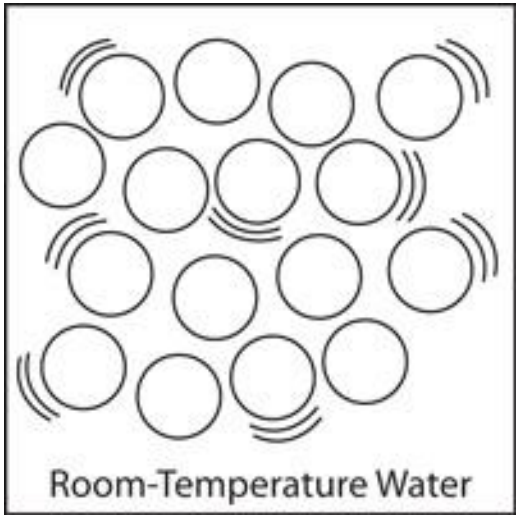
MOLECULES MATTER, PROCESSING

- The circles in this drawing represent water molecules.
- They are not in any exact order, but are near each other because of their attractions.
- The motion lines near some of the circles show that the molecules are in motion.



WATER BALLOON

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KEY IDEAS, CONTINUED

The particles of a liquid:

a. are attracted to one another,
b. are in motion,
c. are able to move past one another.

Being a solid, liquid or a gas is a property of a substance.