

Molecules Matter

Question to Investigate: _____

Key Ideas:

Chemistry: _____

Matter: _____

atoms and molecules: _____

The particles of a liquid: a _____
b. _____
c. _____

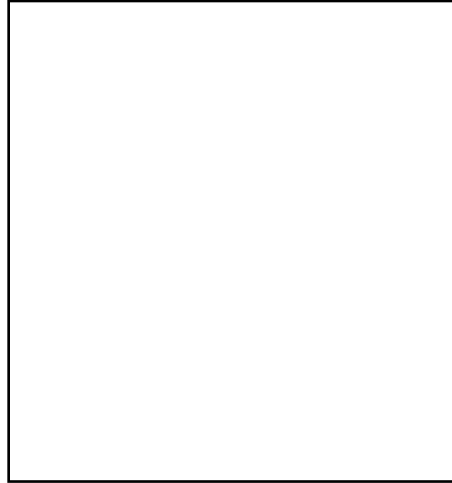
Being a solid, liquid or gas is a _____ of a substance.

Molecules Matter Processing:

You saw an animated molecular model of water. Now you will draw your own model.

Using circles and motion lines to represent water molecules, draw a model of water on the molecular level. Be sure to show that the water molecules are:

- Randomly arranged
- Close together because they attract each other.
- Moving.



What is it about water molecules that helps explain why the water drops were difficult to split apart but easy to join together?

In the video of the water balloon, you saw what happens in slow motion when a water balloon is popped. Surprisingly, there is a moment when the water hangs in the air in a balloon-shape, after the balloon has been popped.

Why do you think the water keeps its shape the moment a balloon is popped?

Imagine a drop of water hanging from your finger. How is this similar to the water staying together after the balloon is popped?