

States of Matter: Basics

A lesson on the behavior of atoms and molecules in solids, liquids, and gases ... but it's way more fun than it sounds!

Watch this short video for important background information: **Change of State** <https://youtu.be/h0D7RS00ZsU>

Part One: States (Solid, Liquid, Gas)

1. Open the **PhET: States of Matter: Basics** simulation
(<https://phet.colorado.edu/en/simulation/states-of-matter-basics>)

2. Select States



States

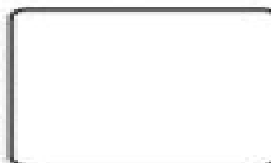
3. Experiment to simulate the motion of **Argon** atoms in a Solid, Liquid and a Gas.

Draw the atoms of Argon in these three states:

Solid

Liquid

Gas



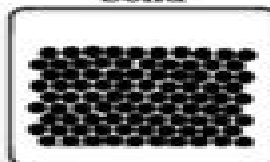
Argon

Argon

Argon

4. Compare the arrangement of particles in Neon, Argon, Oxygen, and Water in all 3 states. Then identify the state and substance for each drawing below (the first one is done for you).

Solid



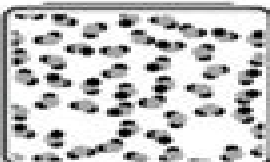
Neon



Neon



Argon



5. Starting with a **solid**, slowly add heat to each of the four substances. Watch closely, one of them behaves differently from the others. Describe the change in the motion of the particles as they are heated. Which one behaves differently and how is it different?

Describe change:

Which is different? Explain:

THE SIMULATOR SHOWS HOW ATOMS AND MOLECULES MOVE ABOUT IN SOLIDS, LIQUIDS, AND GASES!



The state of matter in which the atoms are close together but not always touching.

The state in which atoms are loosely packed and tend to completely fill the container.

The state in which atoms are tightly packed and tend to keep their shape.



Matter Of States Viewing Guide Key

Roman Wölfel



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