

## Density – Sink and Float for Solids

### Key Concepts:

- The \_\_\_\_\_ of an object determines whether it will float or sink in another substance.
- An object will \_\_\_\_\_ if it is less dense than the liquid it is placed in.
- An object will \_\_\_\_\_ if it is denser than the liquid it is placed in.

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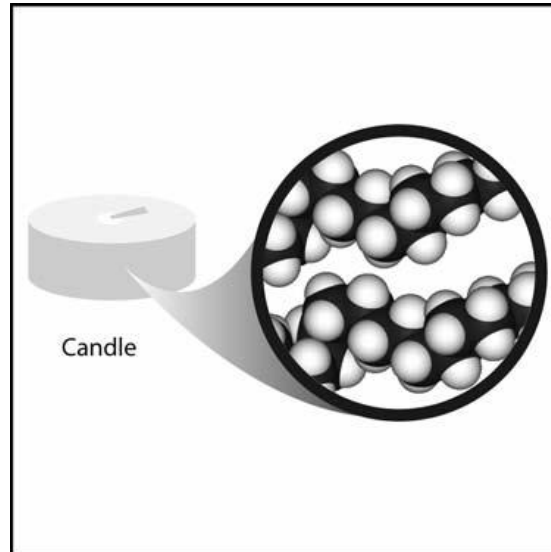
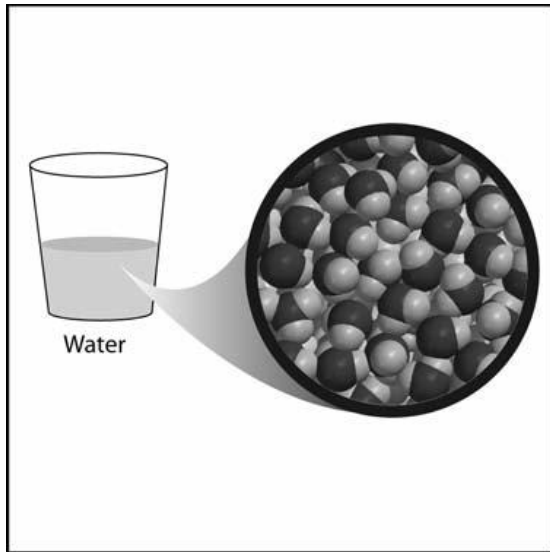
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## Density – Sink and Float for Solids: Processing

### EXPLAIN IT WITH ATOMS & MOLECULES

Water is made up of small molecules of oxygen and hydrogen. Water molecules are closely packed together. Wax is made of carbon and hydrogen atoms connected together in long chains. Explain on the molecular level why water is less dense than wax.



Clay is made of oxygen and heavier atoms such as silicon and aluminum. Explain on the molecular why clay is more dense than water.

