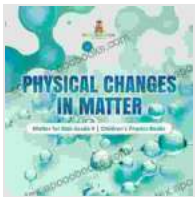


Physical Changes In Matter Matter For Kids Grade Children Physics

Matter is anything that takes up space and has mass. It can be found in three states: solid, liquid, and gas. Physical changes are changes in the form or appearance of matter, but not in its chemical composition.

Examples of physical changes include melting, freezing, boiling, sublimation, and condensation.



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Language : English

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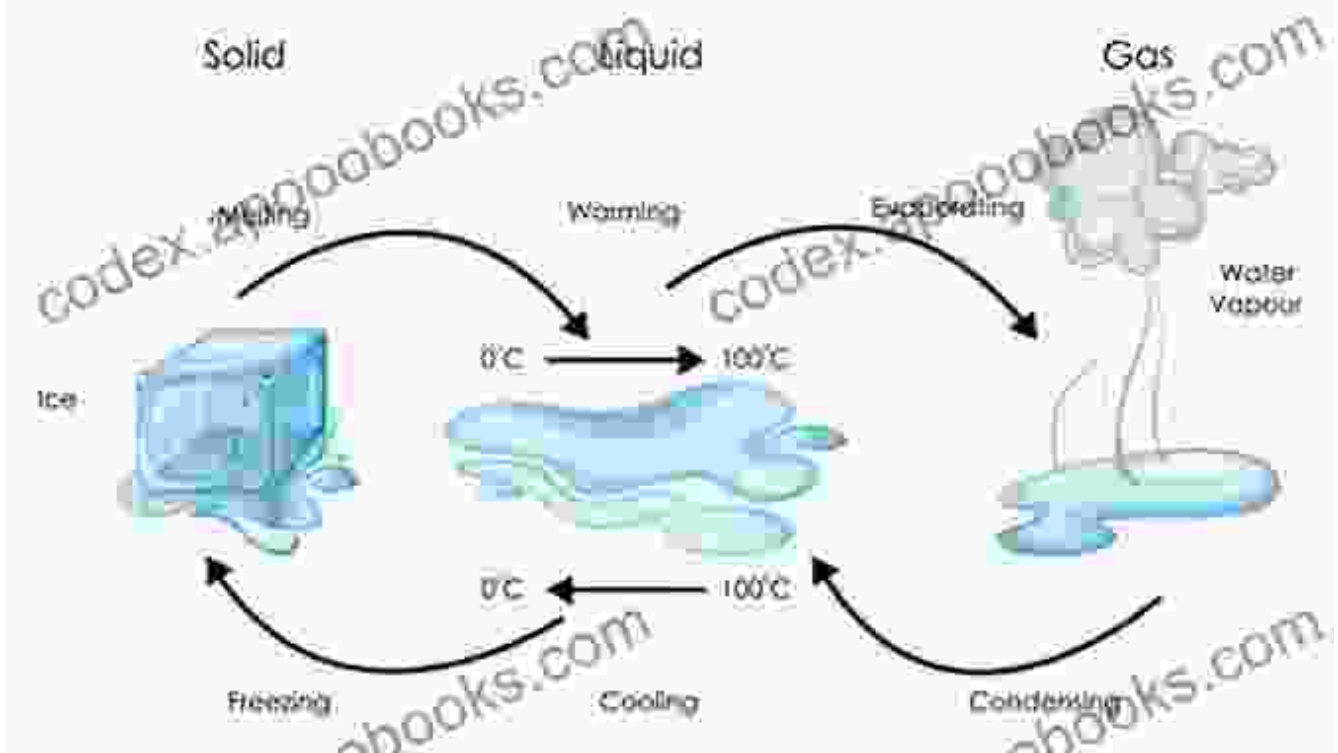
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Melting

Melting is the process of changing a solid into a liquid. When a solid is heated, its particles gain energy and start to move more. As the particles move faster, they break away from each other and the solid begins to melt. The temperature at which a solid melts is called its melting point.

Change of State



Freezing

Freezing is the opposite of melting. It is the process of changing a liquid into a solid. When a liquid is cooled, its particles lose energy and start to move more slowly. As the particles move more slowly, they come closer together and the liquid begins to freeze. The temperature at which a liquid freezes is called its freezing point.

CHANGES IN MATTER

PHYSICAL CHANGE

The essence remains the same even though the appearance of the matter changes.



CHEMICAL CHANGE

Atoms and molecules that make up the core of matter undergo transformation.



Boiling

Boiling is the process of changing a liquid into a gas. When a liquid is heated, its particles gain energy and start to move more. As the particles move faster, they break away from each other and the liquid begins to boil. The temperature at which a liquid boils is called its boiling point.

CHANGES IN MATTER

PHYSICAL CHANGE

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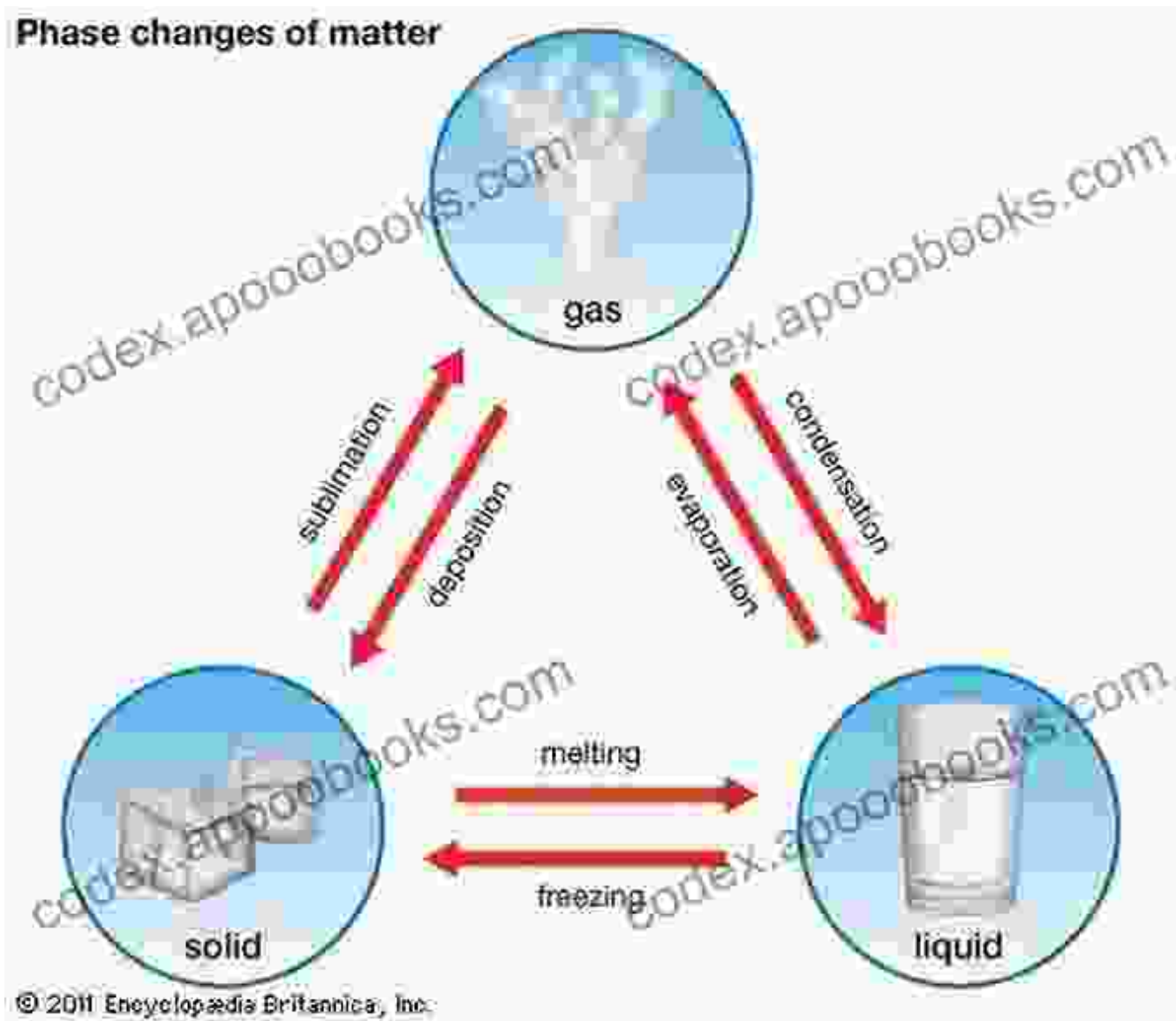
Sublimation

Sublimation is the process of changing a solid directly into a gas without passing through the liquid state. This can happen when the solid is heated to a very high temperature. For example, dry ice sublimates at room temperature.

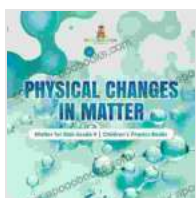


Condensation

Condensation is the opposite of sublimation. It is the process of changing a gas directly into a liquid without passing through the solid state. This can happen when the gas is cooled to a very low temperature. For example, water vapor condenses on cold surfaces to form dew.



Physical changes in matter are all around us. They are essential for many everyday processes, such as cooking, cleaning, and weather. By understanding the different types of physical changes, we can better understand the world around us.



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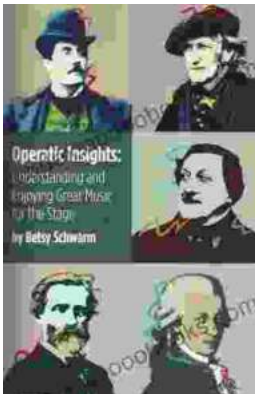
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