

# Matter

## Study Guide & Review Worksheets

### Matter

#### Terms to Know

- **Matter**, Anything that has mass and takes up space
- **Mass**, The amount of matter in an object
- **Atoms**, Tiny particles that matter can be subdivided into

#### Mixtures and Solutions

##### Mixtures

A mixture is when two or more substances are combined. They do not lose their characteristics.

##### Examples



soil



concrete



mud puddle

##### Solutions

Solutions are a special type of mixture in which one substance is uniformly dissolved in a liquid.

##### Examples



sugar water



soda



salt water

#### Temperature and Phase Changes

Matter can change from one state to another when the temperature increases or decreases.

When the temperature increases, a solid will change to a liquid and then to a gas.

##### Example:

When a pot of water is put on a hot stove, it boils. The liquid water changes to water vapor.



When the temperature decreases, a gas will change to a liquid and then to a solid.

##### Example:

When liquid freeze pops are put into a freezer, they become solid.



#### Mass and Phase Changes

Matter does not gain or lose mass during phase changes.

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Anything that has mass and takes up space. Matter in an object can be subdivided into atoms.

#### Mixtures and Solutions

##### Solutions

Solutions are a special type of mixture in which one substance is uniformly dissolved in a liquid.

List 3 examples:

#### Temperature and Phase Changes

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Example:

#### Mass and Phase Changes

Matter does not gain or lose mass during phase changes.

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# Matter And Temperature Study Guide Answers

**Cleveland Engineering Society**



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