

Review for Matter & Energy Test II

Q. What happens to the mass of water when it is frozen?

Q. What happens to the mass of water when it is frozen?

A. It stays the same. You aren't gaining or losing matter, you are just changing its state (physical change)

Q. What happens to the volume of water when it is frozen?

Q. What happens to the volume of water when it is frozen?

A. It increases. That is why a soda can will explode if left in the freezer.

Q. What happens to the density of water when it is frozen?

Q. What happens to the density of water when it is frozen?

A. It decrease. If mass stays the same and volume goes up, density will go down. That is why ice cubes float in liquid water.

Q. What happens to the mass of a piece of paper if I crumble it into a ball?

Q. What happens to the mass of a piece of paper if I crumble it into a ball?

A. Nothing. Its mass stays the same since you are not gaining or losing matter.

Q. What happens to the mass of a Hershey's Kiss if it melts?

Q. What happens to the mass of a Hershey's Kiss if it melts?

A. Nothing. The mass stays the same since you are not gaining or losing matter.

What is this change of state called?



Is this caused by an increase or decrease in energy?

What is this change of state called?



Melting



Increase in
energy



Is this caused by an increase
or decrease in energy?

What is this change of state called?



Is this caused by an increase or decrease in energy?

What is this change of state called?



Freezing



Decrease
in energy



Is this caused by an increase
or decrease in energy?

What is this change of state called?



Is this caused by an increase or decrease in energy?

What is this change of state called?



Condensation



Decrease in
energy



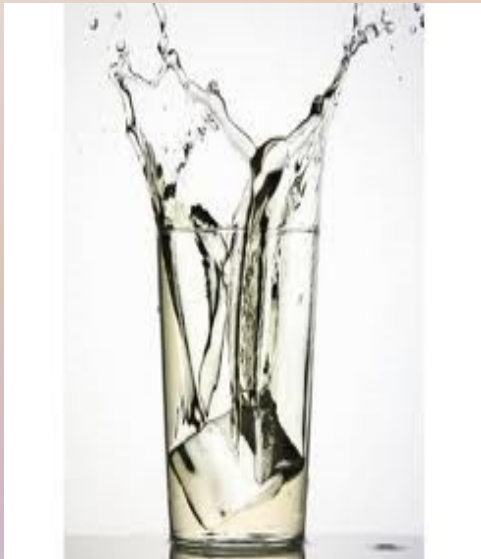
Is this caused by an increase
or decrease in energy?

What is this change of state called?



Is this caused by an increase or decrease in energy?

What is this change of state called?



Boiling



Increase
in Energy



Is this caused by an increase
or decrease in energy?

Physical or Chemical?

Burning Paper

Physical or Chemical?

Burning Paper

Chemical

Physical or Chemical

Baking Cookies

Physical or Chemical

Baking Cookies

Chemical

Physical or Chemical

Melting Ice Cream

Physical or Chemical

Melting Ice Cream

Physical

Physical or Chemical

Digesting Food

Physical or Chemical

Digesting Food

Chemical

Physical or Chemical

Silver Tarnishing

Physical or Chemical

Silver Tarnishing

Chemical

Physical or Chemical

A rock eroding

Physical or Chemical

A rock eroding

Physical

Physical or Chemical

A powder dissolving in water

Physical or Chemical

A powder dissolving in water

physical

Physical or Chemical

A powder bubbling when mixed with water

Physical or Chemical

A powder bubbling when mixed with
water

chemical

Physical or Chemical

Milk Souring

Physical or Chemical

Milk Souring

Chemical

Physical or Chemical

Steel wool rusting

Physical or Chemical

Steel wool rusting

chemical

Physical or Chemical

Chopping wood

Physical or Chemical

Chopping wood

Physical

Physical or Chemical

Cutting cardboard

Physical or Chemical

Cutting cardboard

physical

Physical or Chemical

A change in color

Physical or Chemical

A change in color

chemical

Physical or Chemical

A change in temperature

Physical or Chemical

A change in temperature

chemical

Physical or Chemical

Sharpening a pencil

Physical or Chemical

Sharpening a pencil

physical

Physical or Chemical

Making Toast

Physical or Chemical

Making Toast

chemical

Physical or Chemical

Bread Molding

Physical or Chemical

Bread Molding

Chemical

Physical or Chemical

Mixing two substances and getting something completely different

Physical or Chemical

Mixing two substances and getting something completely different

Chemical

Physical or Chemical

Water evaporating

Physical or Chemical

Water evaporating

physical