5.3 Changes in Matter

Understanding how matter can change is key to understanding Chemistry.

Last section we discussed ______ and _____

properties. You can also have matter change _____or____

A ______change may cause a change in form or state,

but not in substance. The _____remains the same before and after the change.

Changes in the state of matter are examples of a ______ change. You will need to know the list of terms describing this (pg 21 in text)

Solid to liquid \rightarrow _____ (heat added)

Solid to gas \rightarrow _____ (heat added)

Liquid to solid \rightarrow _____ (heat removed)

Liquid to gas \rightarrow _____ (heat added)

Gas to liquid \rightarrow _____ (heat removed)

Gas to solid \rightarrow _____ (heat removed)

Another interesting form of physical change is ______. Putting table salt into water causes the crystals to disappear, but if you evaporate the water the salt will be ______ A ______change occurs when a substance changes into one of more new substances with different properties.

A chemical change is more likely to be ______since

many chemical reactions are not_____. Even in the

reactions that are_____, you need one reaction to change the substance and another to change it back.

But how can you tell just by observing?

Clues that it's a physical change: _____ (usually), no

new substance forms, _____do not change,

_____ change may occur but may not be noticed.

Clues that it's a chemical change: ______ (usually),

_____ forms (ex: a gas or solid), new set of

_____ (ex colour) _____ change may occur (ex heat or light is given off or energy is absorbed)

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