Physical & Chemical Changes

There are 2 types of changes that we can observe:

<u>Physical changes</u> - the substance remains the same. It may change state, but it is still the same substance

<u>Chemical changes -</u> the substance changes and becomes something different

5 signs a chemical change has occurred:

- 1. **Energy is released** a news substance has formed that gave off light, heat or sound
- 2. **Colour change** a new substance has formed that has a different colour than the original substance
- 3. **Odour change** a new substance has formed that has a new smell than the original substance
- 4. **Gas is formed** bubbles indicate the formation of a gas (not caused by heating)
- 5. A solid is formed a new substance that is produced does not dissolve in the mixture and shows up as a solid (solids formed this way are often powdery and are called precipitates they separate from a solution)

You decide! Is a Physical or Chemical change taking place?

Station 1

Tear up paper

Station 2

Burn magnesium strip

Station 3

Acid + base with thermometer

Station 4

Melt an ice cube

Station 5

Add a small scoop of baking soda to 1/2 a test tube of vinegar.

Station 6

Add 1/3 of a test tube of Potassium Iodide to 1/3 of a test tube of Lead nitrate

Station 7

Bending a paper clip