

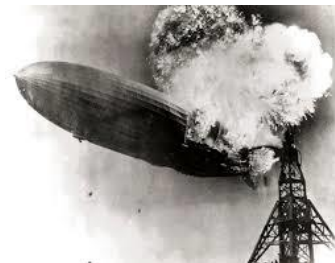
properties = characteristics

Properties of a Pure Substance

Each pure substance has some unique properties. Often this helps us identify an unknown substance. ie: Hydrogen → colourless gas

→ Less dense than air

→ Highly explosive



Match Up (p. 168)

Definition

Word

A characteristic of a substance that can be observed without a new substance being created

A characteristic of a substance that is observed with one or more new substances are produced.

A **change** in a substance that does not involve the formation of a new substance.

A **change** in a substance that does involve the formation of 1 or more new substances

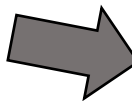
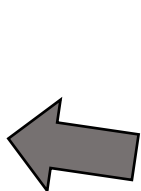
A Chemical change

B Physical property

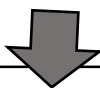
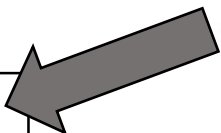
C Chemical property

D Physical change

5 Clues that a Chemical Change has occurred

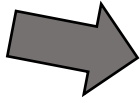


A precipitate forms (a solid forms in a liquid)

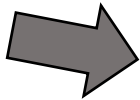


Diet Coke and Mentos

Why does this 'fountain' work?



1. 'Fizz'



2. Reduced Surface Tension



3. Pits // nucleation sites

Is the Diet Coke and mentos fountain a physical change or a chemical change? Explain.

Tricky changes → Dissolving is a physical change For example:.....
→ Change of state is a physical change For example: