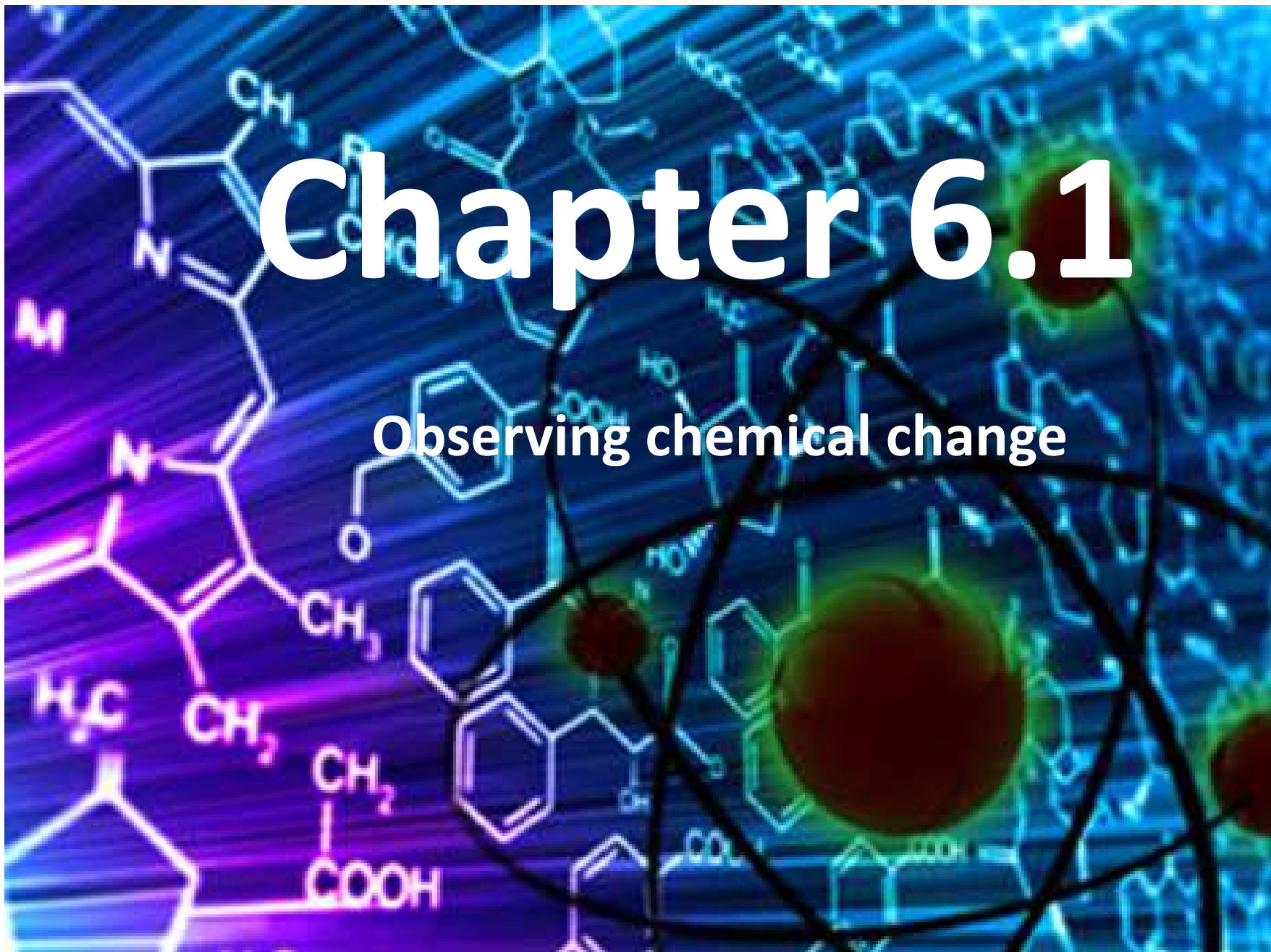


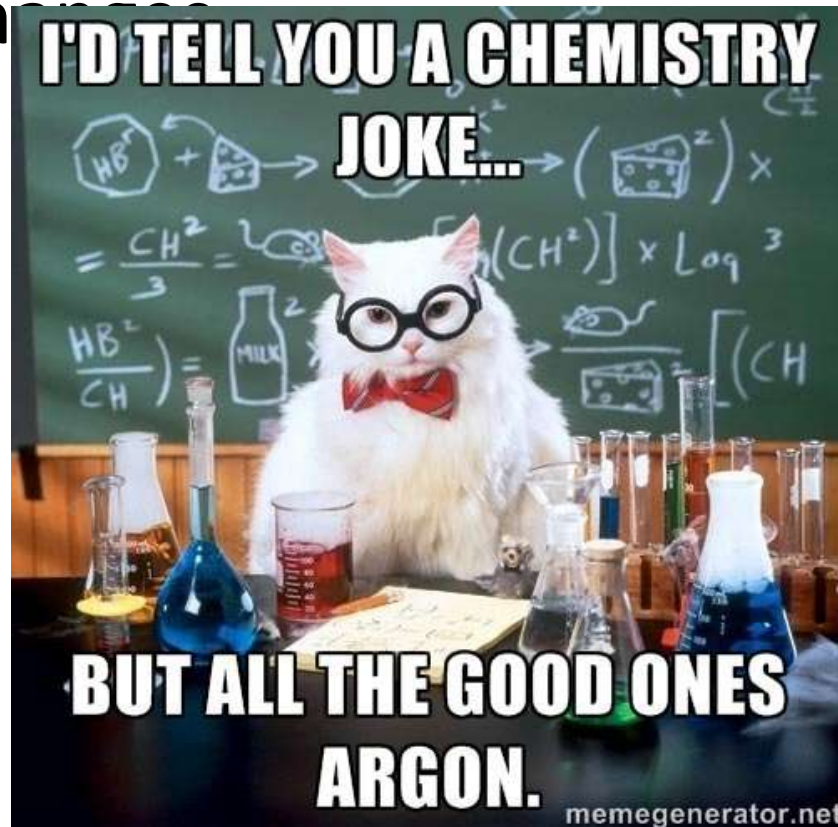
Chapter 6.1

Observing chemical change



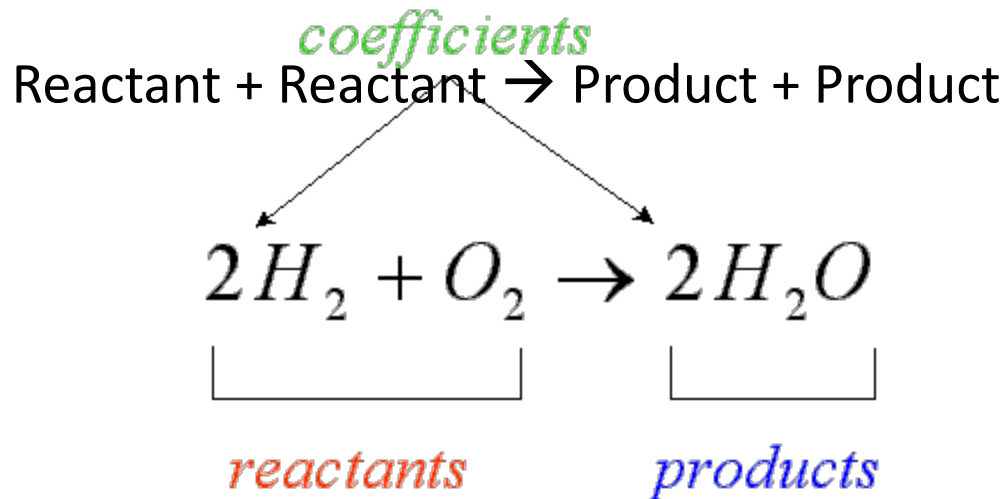
Chemistry

- Chemistry is the study of matter and how it changes.



Matter can change

- Physical change: it is still the same
- Chemical change: it is a new substance
 - In a chemical change we can show the change occurring by writing the chemical equation:





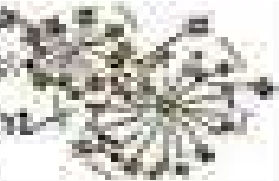


Atomic Bonding and Chemical Change

- A chemical change occurs when bonds between atoms break and new bonds form.

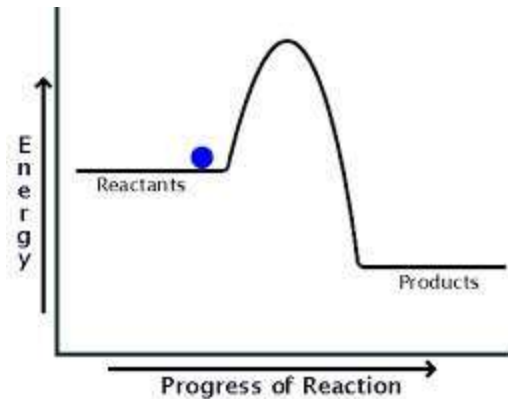


Evidence of Chemical Changes

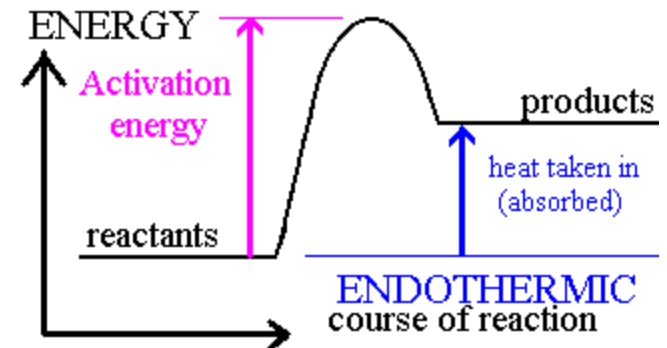
Clue	Example	Description
Color change	Bread dough baking	Changes from white to brown 
Smell	Eggs rotting	Smells bad 
New matter created	Wood burning	Wood changes to ash 
Gas created	Baking soda added to vinegar	Creates carbon dioxide gas 
Heat or Light created	Fireworks	Burning chemicals create light and heat 

Changes in Energy

EXOTHERMIC



ENDOTHERMIC



Complete Page 221 #1-3