

15 Sep Chem: Pre-AS

Developing fuels - Story to start with

: Maths needed: ratios & proportion (direct)

. balancing equations

Chemical equation: what is it?



↓

CaCO_3 - Calcium Carbonate
has 3 elements

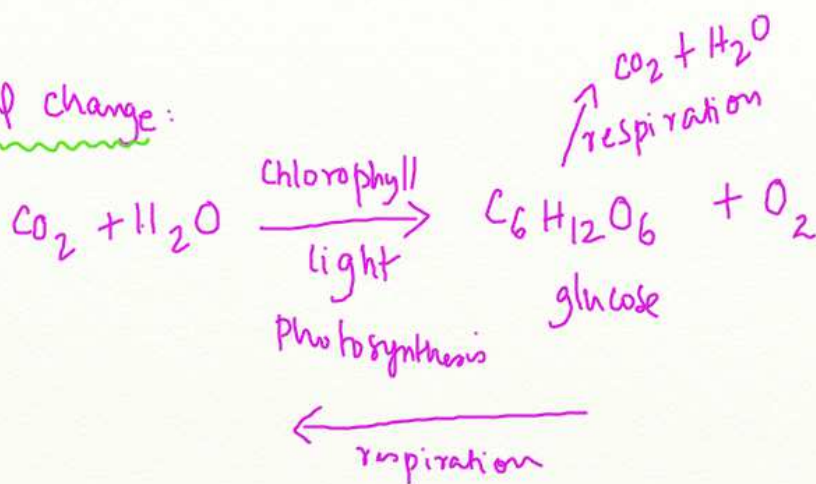
- physical changes are reversible
- no new compound is formed

to separate sand from H_2O → filtration
decantation

Chemical changes are irreversible
new compounds are formed

Color changes may not always be
a chemical change

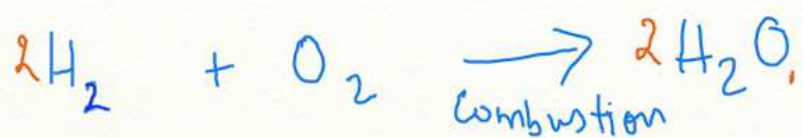
Chemical change:



enzymes make this process happen in both ways.

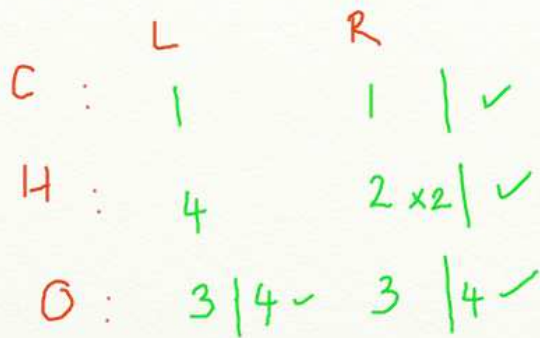
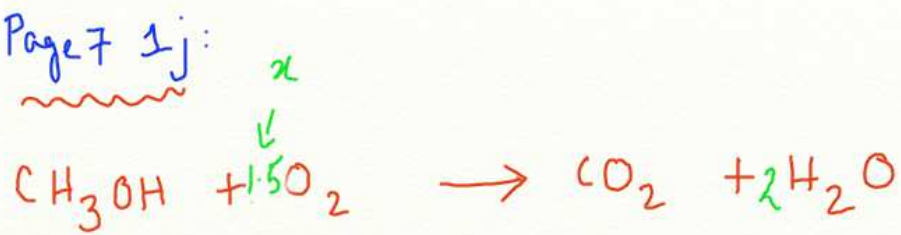


Balancing a chemical equation



Chemical ideas part 7, 1j balancing the combustion of methane

Page 7 1j:



new equation



Oxygen balance

$$1 + 2x = 4 \Rightarrow 2x = 3$$

$$x = \frac{3}{2} = 1.5$$

HW: For next class, read DF1 from the storylines