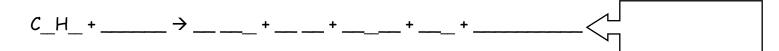


Most commonly

or



Complete combustion

- Only ___ and ____ formed.
- N₂ is _______.
- Enough ___ supplied to convert all __ and __ to CO2 and H2O.

Model for air

For ____ air (by volume)

| Component | fraction |
|----------------|----------|
| O ₂ | |
| N ₂ | |

Dalton's other model strikes again!



or

$$O_2 + O_2 + O_2 + O_2 + O_2 = O_2 + O_2 + O_2 = O_2 + O_2 + O_2 = O_2 + O_2$$

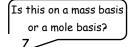
Remember $M_{air} =$ _____kg/kmol

Stoichiometric reaction

- The correct amount of air needed for above is

_____or _____

- More or less air is
 - o % _____ air
 - o % _____ air
 - o % _____ air, etc.



Air-fuel ratio

AF = _____ = ____

FA = _____ = ____

Equivalence ratio

Φ = _____

 $\Phi < _ \rightarrow$ "Lean"

₱ 1 → "______"

Balancing chemical reactions

It's just _____!

You remember how to do it from CHEM101, yes?