



Basic Atomic Structure

1 2 3 4 5

	RELATIVE MASS	CHARGE
PROTONS		
NEUTRONS		
ELECTRONS		



REMINDERS!

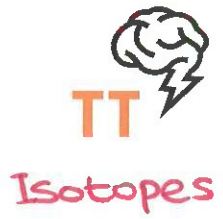
- 1
- 2
- 3

Symbols & Numbers

e.g.

e.g.

Isotopes



e.g.

Important Facts

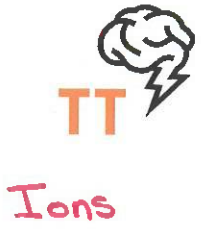
①

②

③

④

Mass Spectroscopy



Ions

- 1
- 2
- 3
- 4
- 5

Metals

e.g.



Non-Metals

e.g.





Common Ions & Predicting Charges

1 2 3 4 5

Metals

- .
- .
- .
- .
- .
- .

e.g.

Non-Metals

- .
- .
- .

Common Molecular Ions

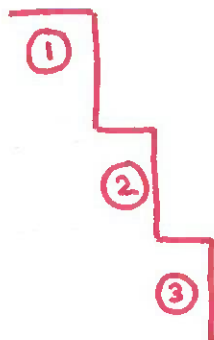
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|---|---|---|
| . | . | . |
| . | . | . |
| . | . | . |



Writing Formulae

KNOW YOUR IONS! (ATOMIC & MOLECULAR)

e.g.



Alternative

e.g.

Using Molecular Ions

e.g.

e.g.



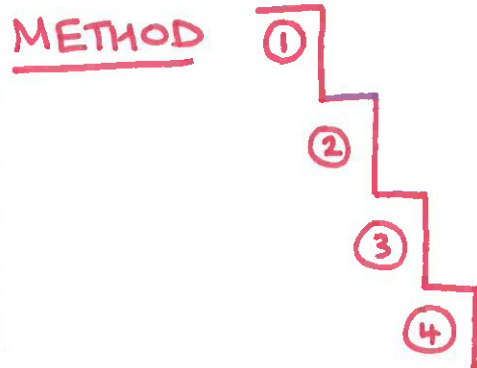
Balancing Equations

•
•

e.g. + → +

e.g. + → +

RULES! -
 -



+ → +



Stoichiometry

Stoichiometry

-

- i.e.

e.g.

+



+

★ 0.5 moles of NH₃ reacted

How many moles of ...

•

•

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