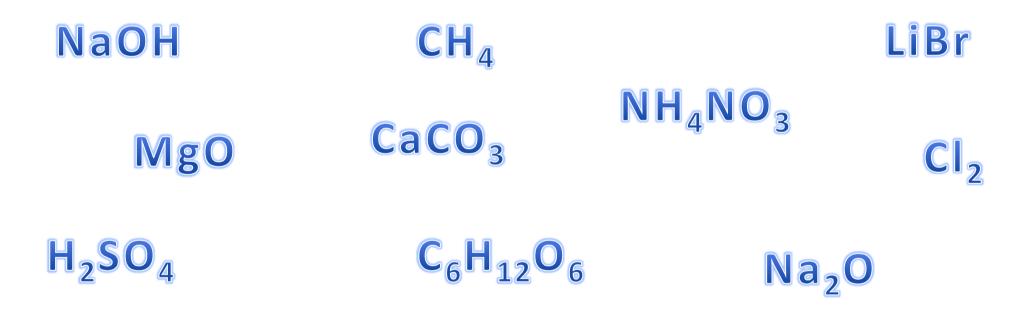
### Starter

For each compound below, write down what element(s) it contains and how many atom(s) of each element there are.



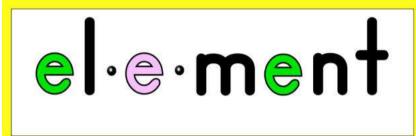
Extension: write down the name of as many compounds as you can

# Objectives

Know what the main types of bonding are

 Be able to draw diagrams to represent both ionic and covalent bonding Key words

**Starter:** find definitions for the following words:



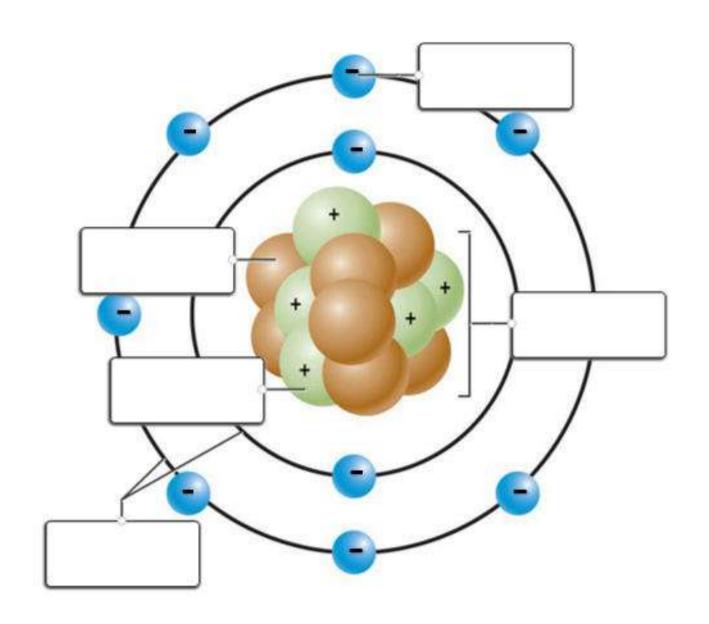






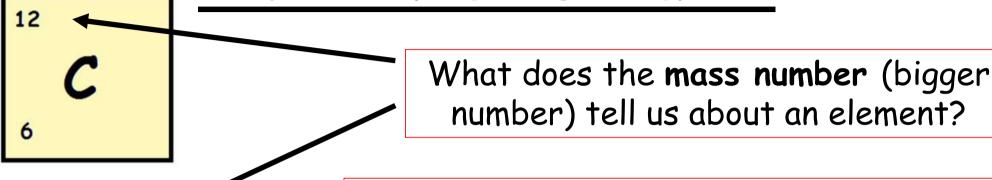


Extension: draw a diagram to represent each definition



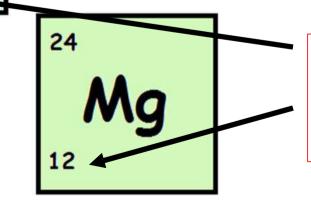
Subatomic particle	Location	Mass	Charge
Proton	Nucleus	1	+1
Neutron	Nucleus	1	No charge
Electron	Shells	0 (negligible)	-1





Mass number = protons + neutrons

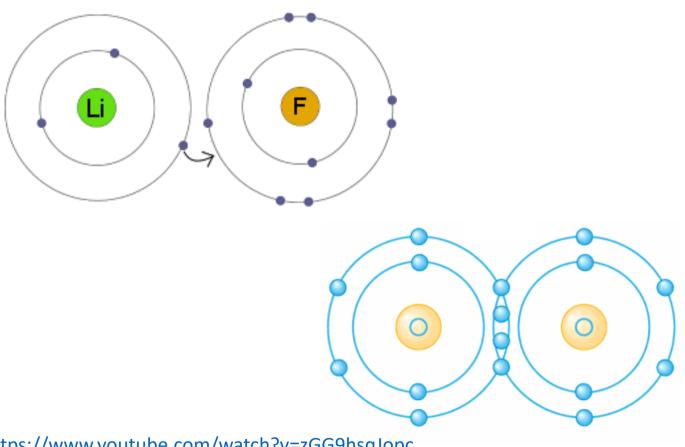
Atomic number = proton number = electron number



What does the atomic number (smaller number) tell us about an element?

## Bonding

There are 3 main types – can you remember what they are?

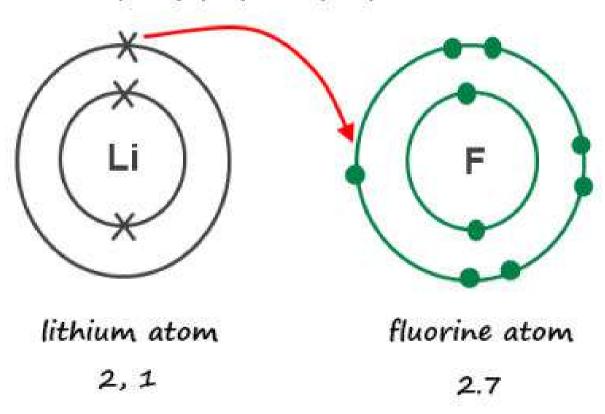




https://www.youtube.com/watch?v=zGG9hsqJopc

# Ionic bonding

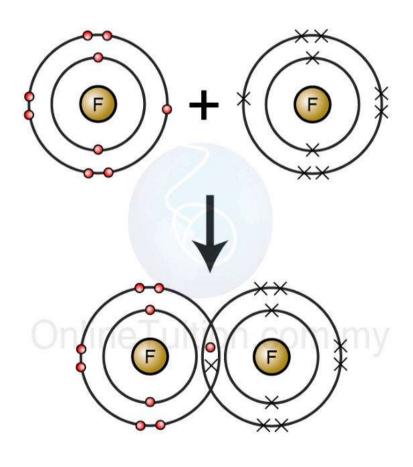
transfer of an electron



## Task

Have a go at the ionic bonding worksheet

# Covalent bonding



## Task

Have a go at the covalent bonding worksheet

# Objectives

Know what the main types of bonding are

 Be able to draw diagrams to represent both ionic and covalent bonding

## Plenary

#### **Ionic or covalent?**

- Happens between 2 non-metals
- Electrons are shared
- lons are created
- Happens between a metal and non-metal
- Electrons are either lost or gained
- The type of bonding in sodium chloride
- The type of bonding in oxygen