

The Periodic Table

Lesson 5 - Compounds

Science

Chemistry - Key Stage 3

Miss Willett

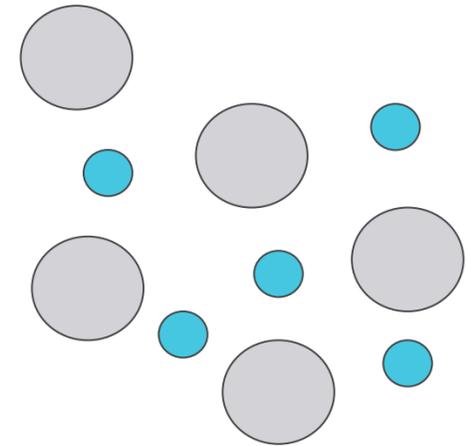
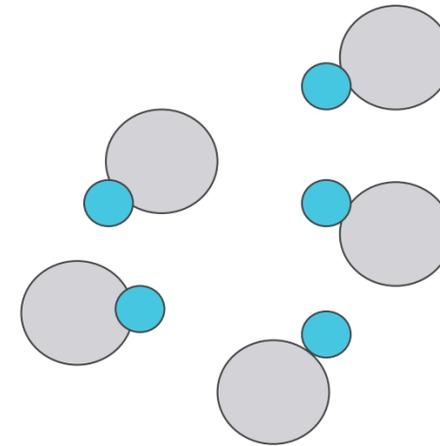
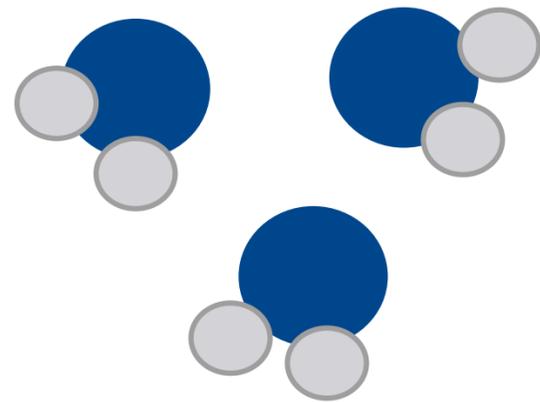
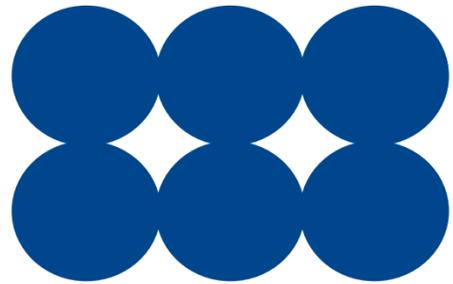


What have you learnt already?

1. **What does malleable mean?**
2. **What charge does a proton have?**
3. **What is the middle of an atom called?**



Which one is the compound!?



What is a compound?

Q1) Complete the sentences:

- Compounds are made from...
- The atoms are...
- They have different....



Spot the mistake!

- Iron is a non-metal
- Sulfur is an orange powder
- Mixtures are difficult to separate
- Iron sulfide is a magnetic element
- High density substances (like sulfur) float



Complete the table:

Substance:	Iron	Sulfur	Iron sulfide
Element or compound?			
Metal / non-metal?			
Appearance			
Properties			



Naming compounds

Magnesium + oxygen →

Lithium + chlorine →

Calcium + sulfur →



Naming compounds

Lithium + sulfur + oxygen →

Sodium + nitrogen + oxygen →

Calcium + carbon + oxygen →



Naming compounds

Q1) Complete the following word equations

a) Copper + carbon + oxygen →

b) Potassium + chlorine →

c) Lithium + fluorine →

d) Calcium + _____ + _____ → calcium sulphate



Bringing it all together..

Q1) Answer the following questions to consolidate your knowledge:

- a) Define the term 'compound'.

- b) Compare a compound to its elements.



Bringing it all together..

Q1) Answer the following questions to consolidate your knowledge:

c) Create a word equation for the formation of iron sulfide.

d) Use your table to explain how you know that iron sulfide is a new, different compound.

