The Periodic Table Lesson 4 - Metals and Non-metals

Science

Chemistry - Key Stage 3

Miss Willett



What have you learnt already?

1. Where are metals on the periodic table?

2. Who developed the modern periodic table?

3. What is an element?



Properties of metals

Q1) Add definitions for the following:

Malleable

Ductile

Sonorous



Properties of metals and non-metals

Complete the table:

Ductile, low density, dull, shiny, brittle, malleable, insulator, conductive, sonorous, low melting points

Metals:	Non-metals:	



Which metal would you use?

Think about: appearance, conductivity, is it ductile / malleable?

Q1) Explain what you would use gold or copper for:

- -jewellery
- -electrical wires



True or false?

A mathematical relationship could be 'double', 'half', '3x as much'

If you write in bullet points, you'll NEVER get full marks

If it is a 6 mark answer, you need 6 sentences



Evaluating data

Q1) From which material would you make a bell?

Material	Gold	Tin
Cost	£3.000 a bell	£2,300 a bell
How long will it last?	3 years	12 years
How malleable is it?	Very soft and easily shaped	Quite hard and more difficult to shape
What kind of sound does it maket?	Quite sonorous	Very sonorous

Think: what kind of properties do you want?

Are there any mathematical relationships?



Evaluating data

Q1) From which material would you make a bell?

The property you need for a bell is...

This means that...

The cost of the materials is...

Overall, I think the best option is...

