Metals and non-metals

Task 1: Properties

a) **Draw** a line to **match** each keyword to the correct definition.

melting point	The temperature at which a substance changes from a liquid to a liquid.
boiling point	A material that allows heat and electrical energy to pass through it.
conductor	The temperature at which a substance changes from a solid to a liquid.

Task 2: Properties of metals

a) **Define** the terms:

Sonorous:

Malleable:

Ductile:

Task 3: Properties of non-metals

a) **Delete** one of the options in the brackets so the sentences read correctly.

i) Non-metals (can/cannot) usually conduct electricity.

ii) Non-metals have a (low/high) density.

iii) Non-metals are (good/poor) conductors of heat energy.

iv) Non-metals are (brittle/malleable).

v) Non-metals have (high/low) melting and boiling points.

b) **Tick** the correct box to show if each property is a property of metals or non-metals.

	non-metal	metal
malleable		
low melting point		
conducts heat		
brittle		
shiny		

Task 4: Uses of metals and non-metals

a) **Look** at the kettle image and then complete the tasks.

i) **Complete** this sentence

The jug is made from _____ because it is a good _____ of heat.

ii) **Explain** why the handle is made of plastic.

b) **Draw** lines to **match** the use with the properties.

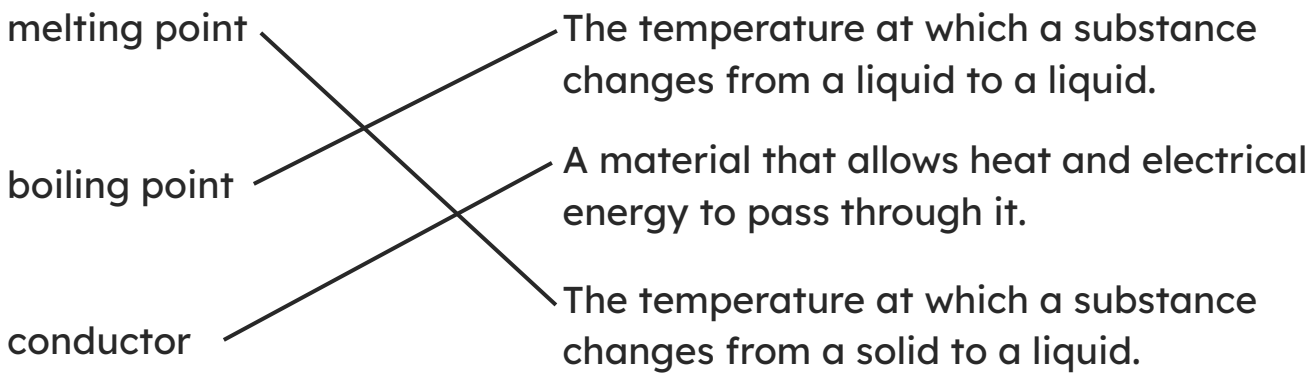
church bell	high melting point
power cable	sonorous
saucepan	shiny
jewellery	conducts electricity

Metals and non-metals

Answers

Task 1: Properties

a) **Draw** a line to **match** each keyword to the correct definition.



Task 2: Properties of metals

a) **Define** the terms:

Sonorous: *A material that makes a ringing sound when struck.*

Malleable: *A material that can be bent or hammered into shape without breaking.*

Ductile: *A material that can be drawn into wires.*

Task 3: Properties of non-metals

a) **Delete** one of the options in the brackets so the sentences read correctly.

i) Non-metals (~~can~~/cannot) usually conduct electricity.

ii) Non-metals have a (low/~~high~~) density.

iii) Non-metals are (~~good~~/poor) conductors of heat energy.

iv) Non-metals are (brittle/~~malleable~~).

v) Non-metals have (~~high~~/low) melting and boiling points.

Answers

b) **Tick** the correct box to show if each property is a property of metals or non-metals.

	non-metal	metal
malleable		✔
low melting point	✔	
conducts heat		✔
brittle	✔	
shiny		✔

Task 4: Uses of metals and non-metals

a) **Look** at the kettle image and then complete the tasks.

i) **Complete** this sentence

The jug is made from *metal* because it is a good *conductor* of heat.

ii) **Explain** why the handle is made of plastic.

Plastic is a non-metal. It is a poor conductor of heat energy. It is an insulator. A person can touch the handle and it will not be too hot.

b) **Draw** lines to **match** the use with the properties.