


Using Metals




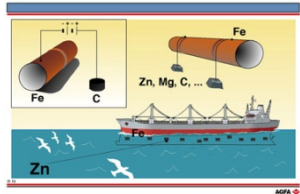
Task 1:

Complete the table giving a reason for why metallic elements can be used for those applications:

Diagram	Use	Why? (Give the key property + explain)
	Copper alloys such as brass are used to make cymbals and other instruments	
	Stainless steel (an alloy of carbon and iron) is used to make cooking pans	
	Coins are made from a variety of metals – copper, nickel, tin and silver. Only small amounts of silver are used	
	Aluminium is used in foil to store foods and in cooking	
	Osmium is used in making high quality pen nibs	
	Iron filings are used to make fridge magnets	
	Copper is used to in wiring plugs and other electrical devices	
	Titanium is used in the manufacture of aeroplanes	
	Gold is used for making ring	

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More Challenging Examples

Diagram	Use	Why? (Give the key property + explain)
	Rhodium, palladium and platinum are used in catalytic converters to speed up reactions inside cars	
	Sodium ions and potassium ions are needed in small amounts inside the body for a healthy nervous system	
	Chromium is used as a paint pigment in paint formulations	
	Magnesium is used in ships to sacrificially protect metals like copper and iron from rusting	

Task 2:

Give 5 differences between the general properties of transition metals and Group 1 metals – write each one as a comparative statement.

e.g. Transition metals are harder than Group 1 metals, which are soft and can be cut with a knife.

- 1)
- 2)
- 3)
- 4)
- 5)