

Displacement Reactions

Part A

Can you complete the following displacement reactions, for each write down the TWO products formed. 🌶️

If you can, leave a small gap for each one, so you can add the second part Underneath

Example

Copper into Silver Nitrate → Silver Metal and Copper Nitrate

1. Iron into Silver Nitrate
2. Potassium into Silver Nitrate
3. Calcium into Tin Nitrate

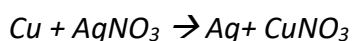
4. Zinc into Tin Chloride
5. Magnesium into Copper Sulphate
6. Lead into Copper Nitrate

7. Lead into Iron Chloride
8. Sodium into Potassium Sulphate
9. Silver into Tin Nitrate

Part B

Can you use the symbols to write out the reactions above again in symbol form? 🌶️🌶️

Example



Part C

Explainer Questions



10. Explain why when an iron nail is placed into copper sulphate solution, the copper sulphate solution changes colour and copper appears on the surface of the nail.
11. Explain what happens when another iron nail is placed into aluminium nitrate solution.

Bonus Questions



12. Hydrogen and Carbon aren't metals. Can you find out what they are and why they are included in the reactivity series?
13. Using the answer above, can you suggest why copper pipes are better than lead pipes for carrying water to our homes?

potassium	most reactive	K
sodium		Na
calcium		Ca
magnesium		Mg
aluminium		Al
carbon		C
zinc		Zn
iron		Fe
tin		Sn
lead		Pb
hydrogen		H
copper		Cu
silver		Ag
gold		Au
platinum	least reactive	Pt

substance	Name
Cl	Chloride ion
Br	Bromide ion
O	Oxide ion
CO ₃	Carbonate ion
OH	Hydroxide ion
SO ₄	Sulfate ion
NO ₃	Nitrate ion