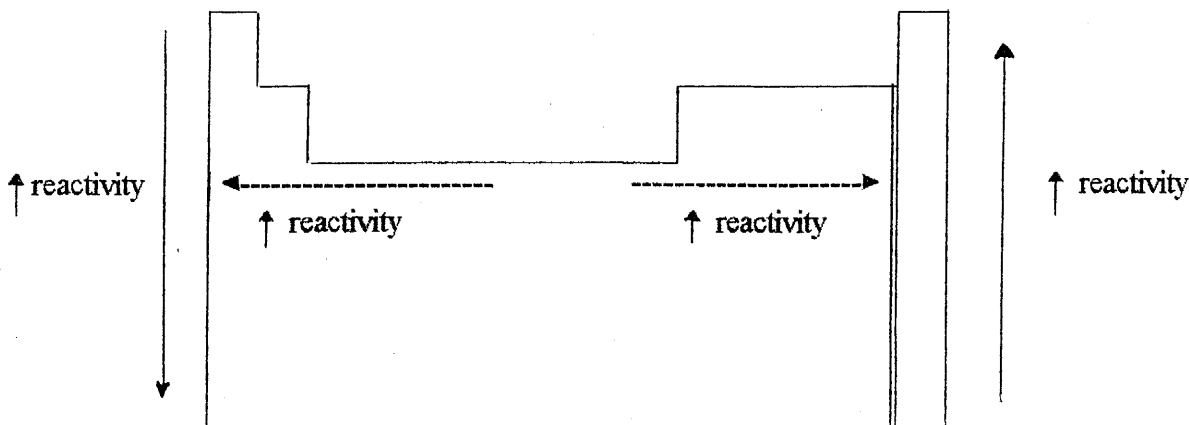


The Activity Series of Metals

- metals differ in their reactivity



- metals can be arranged by their reactivity. Call this the Activity Series.

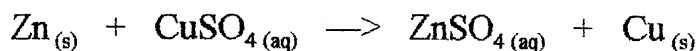
- arranged by activity with oxygen

* a metal will displace any other metal from a compound if the other metal is below it in the activity series

Guidelines

- 1) Use the activity series to determine if the reaction will occur. If metal is unable to displace the metal in the compound, write **no reaction**.
- 2) Write the word equation and find the expected products if there is a reaction.
- 3) Write the chemical formulas using oxidation numbers
- 4) Balance the chemical formula

e.g. zinc + copper (II) sulphate \longrightarrow zinc sulphate + copper



∴ Zinc replaces copper because zinc is more reactive

e.g. zinc + lead (II) nitrate \longrightarrow

e.g. nickel + aluminum chloride \longrightarrow

e.g. fluorine + sodium bromide \longrightarrow