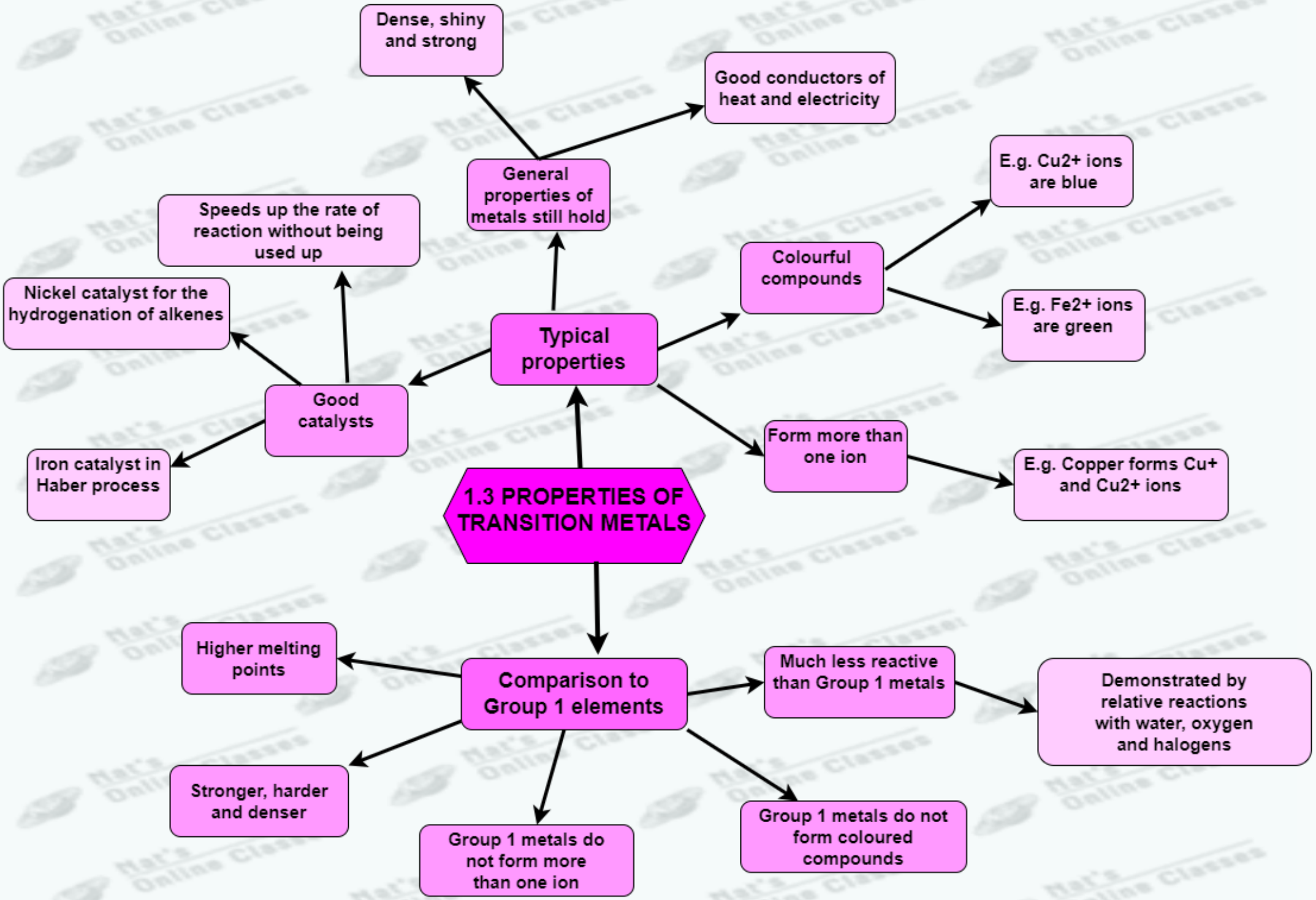
1.3 PROPERTIES OF TRANSITION METALS
Typical properties
General properties of metals still hold
Dense, shiny and strong
Good conductors of heat and electricity
Colourful compounds
E.g. Cu2+ ions are blue
E.g. Fe2+ ions are green
Form more than one ion
E.g. Copper forms Cu+ and Cu2+ ions
Good catalysts
Speeds up the rate of reaction without being used up
Nickel catalyst for the hydrogenation of alkenes
Iron catalyst in Haber process
Comparison to Group 1 elements
Higher melting points
Stronger, harder and denser
Group 1 metals do not form more than one ion
Much less reactive than Group 1 metals
Demonstrated by relative reactions with water, oxygen and halogens
Group 1 metals do not form coloured compounds