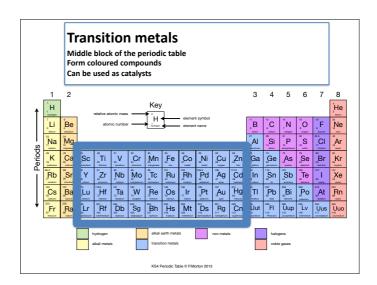
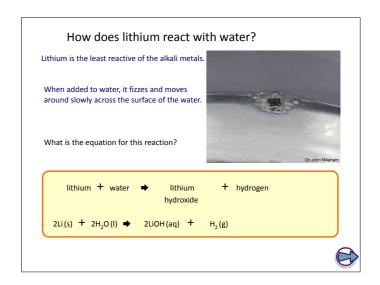
Chemical properties of metals

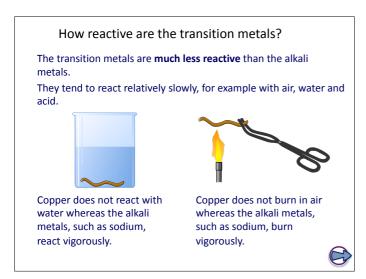
Identify the chemical properties of metals Recognise that certain metals can form coloured compounds

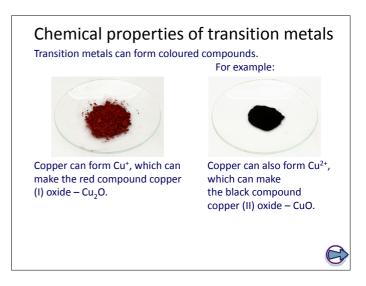
Describe the reaction of metals with water Represent reactions using word equations



All the alkali metals react vigorously with water. The reaction with water becomes more vigorous as you go down the group. It is an exothermic reaction as it releases a lot of heat. The reaction produces a gas that ignites a lighted splint with a squeaky pop. What is this gas? When green universal indicator is added to the reaction mixture, it turns purple. What does this tell you about the products of this reaction?







Transition metal compounds and colour

- Iron (II) oxide (FeO₂) is black.
- Iron (III) oxide (Fe₂O₃) is red/ brown – when hydrated this is rust.
- Copper (II) sulfate crystals (CuSO₄.H₂O) is blue – these can be turned white by heating the crystals to remove the water.

