**5.1 Uses of Metals**

**Use of Metals**

Strength:

Lightness and strength:

Wire forming:

Electrical Conductive:

Moulded and shaped:

**Useful Properties of Metals**

The elements we classify as metals have all or most of the following properties. They

* Are good conductors of electricity.
* Are good conductors of heat.
* Are malleable – can be shaped by beating or rolling.
* Are ductile – they can be drawn into a wire.
* Exhibit a range of melting temperatures and relatively high boiling temperatures.
* Generally have high densities.
* Are lustrous or reflective, when freshly cut or polished.
* Are often hard, with high tensile strength.

Not all metals have these properties. Mercury has a low melting temperature – it is liquid at room temperature, Chromium is brittle rather than malleable and the alkali metals (group 1) are soft enough to cut with a knife and react vigorously with water. These exceptions still show most of the other properties listed and are classified as metals.

**Text Questions: 1 – 4**

**Workbook: 13 - 14**