The Sun: some vital statistics:-

The Sun is a star: a ball of (mainly) hydrogen gas, 700,000 km in radius (about 100 Earth radii)

It generates heat and light through nuclear fusion:

Surface temperature = 5800K Central temperature = 15 million K

Balance (hydrostatic equilibrium) maintained between pressure and gravity

The Sun's outer atmosphere, or *corona*, is very hot (several million K) - heated by twisting of the Sun's magnetic field?...

Mean Earth - Sun distance = Astronomical Unit

149,597,870 km

1 A.U. = 107 solar diameters

The orbits of the planets are ellipses (see A1X Dynamical Astronomy) and lie in, or close to, a plane – the ecliptic.

The planets divide into two groups:-

Inner Terrestrial planets: small, rocky Mercury, Venus, Earth, Mars

Outer Jovian planets: gas giants Jupiter, Saturn, Uranus, Neptune

Pluto is a 'misfit' - Kuiper Belt object (planetesimal); together with asteroids and comets, 'debris' from formation of the Solar System.