

Numbers and formulas you should know

$$c = 3 \times 10^8 \text{ m s}^{-1}$$

$$F = m a$$

$$F = G m_1 m_2 / d^2$$

$$E = m c^2$$

$$E = h \nu$$

$$\text{Circumference of a circle} = 2 \pi r$$

$$\text{Area of a circle} = \pi r^2$$

$$\text{Area of a sphere} = 4 \pi r^2$$

Distance from the Earth to the Sun

Distance to the nearest star (other than the Sun)

Approx. diameter of the galaxy

Distance to the Andromeda galaxy

Approx. age of the Universe