

**latitude**

imaginary **horizontal** lines  
east ↔ west  
**shorter** nearer the poles

**parallel** and never touch

**Arctic Circle**  
(north)

**Tropic of Cancer**  
(north)

**Equator** 0° latitude

**Tropic of Capricorn**  
(south)

**Antarctic Circle**  
(south)

measured in degrees ° north or south of the **equator**

North Pole = 90° N of equator

South Pole = 90° S of equator

**Northern hemisphere**

Equator 0°

**Southern hemisphere**

**longitude**

imaginary **vertical** lines  
north ↔ south  
**all meet at the poles**

**widest** at the **equator**

called **meridian lines**

International date line

**prime meridian**  
0° longitude

**Greenwich - London**

measured in degrees ° east or west of the **prime meridian**

360° in total

**day and night**

Earth **rotates** **anti clockwise**

a = **day**

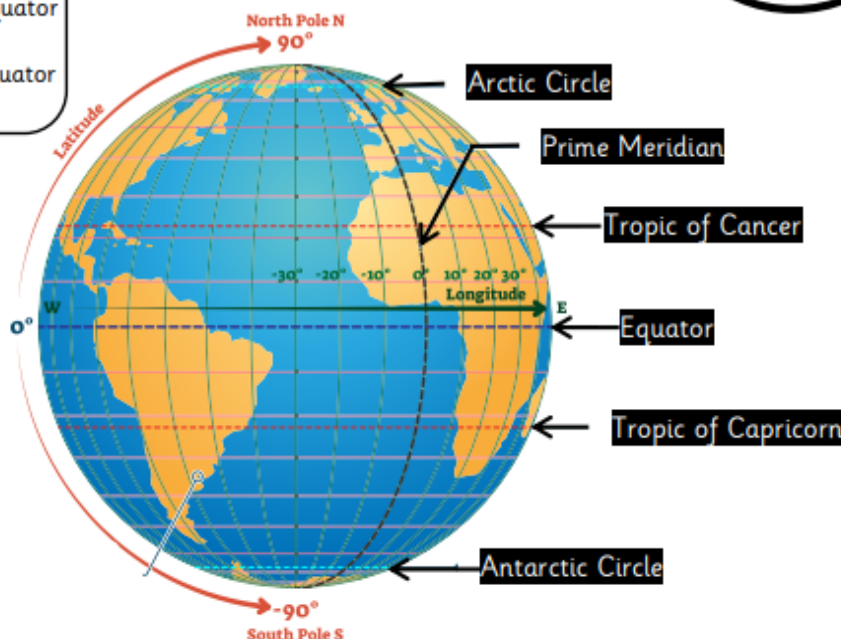
b = **night**

1 **rotation**  
of earth  
= 24 hours

365 ¼ days  
earth **orbits**  
sun once  
every year

a = **night**

b = **day**



**PURPOSE**

**latitude and longitude**

**coordinate system**

**measure of location**

**longitude**

north or south of the equator line

**latitude**

east or west of the prime meridian line