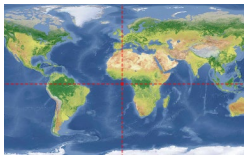
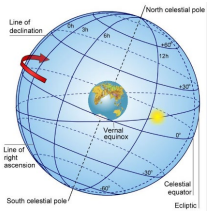
ASTRONOMY
Curriculum Map: Year 10

AUTUMN TERM

- **The Earth's Structure**
  - Core
  - Mantle
- **The Earth's atmosphere**
  - Light Pollution
  - Clear skies
- **Stars and constellations**
  - Asterisms
  - Pointer stars
- **Coordinate systems**
  - Declination
  - Right ascension
- **Circumpolar stars**
  - Polaris
  - North celestial pole
- **Surface features of the Moon**
  - Craters
  - Mare
- **Origin of the Moon**
  - Giant impact
  - Accretion
- **Exploration of the Moon**
  - Apollo missions
  - Artemis
- **Practical observing**
  - Naked eye
  - Telescopes
- **Diurnal motion**
- **The celestial sphere**
- **The night sky**
  - Visible objects
  - Apparent movement
- **Latitude and longitude**
  - Prime meridian
  - Equator



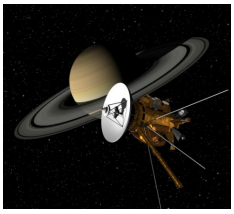


End of unit test

SPRING TERM

- **Planets and dwarf planets**
  - Pluto
  - Ceres
- **Comets**
  - Long period
  - Short period
- **Meteors and meteorites**
  - Impact craters
  - Ejecta
- **Size of the Solar System**
  - Astronomical unit
  - The Oort cloud
- **Space probes**
  - Perseverance
  - Juno
- **Optical telescopes**
  - Refactors
  - Reflectors
- **Observing planets**
  - Zodiacal zone
  - Ecliptic
- **Models of the Solar System**
  - Ptolemy
  - Copernicus
- **Kepler's laws**
  - Planetary motion
  - Orbits
- **Kepler's third law**
- **Solar and lunar cycles**
  - Days and years
  - Months

End of unit test



SUMMER TERM

- **Observing the Sun**
  - Solar telescope
  - Pinhole camera
- **The Sun's interior**
  - Convection zone
  - Radiative zone
- **The Sun's atmosphere**
- **The solar wind**
  - Aurora
  - Van Allen belt
- **Eclipses**
  - Solar eclipse
  - Lunar eclipse
- **Tides and procession**
  - Spring tide
  - Neap tide
- **The Earth, Sun and Moon**
- **Diameters and distances**
  - Comparing sizes
  - Eratosthenes
- **Trip - Royal Observatory Greenwich**
- End of unit test