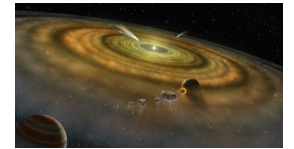


ASTRONOMY Curriculum Map: Year 11



Sidereal and synodic time

The equation of time

Longitude and time zones

Formation of planets and moons

AUTUMN TERM

Relative position
Days

Use in Calculations
Solar time

Calculating longitude
International date line

Accretion
Bombardment

Exoplanets

The Drake equation
Extra-terrestrial life

Lunar phases

Lunar orbit
Earth and Moon

Sundials and shadow sticks

Shadow sticks investigation
Local noon

Interactions

Gas giants

Formation
Jupiter

H-R diagram

Main sequence
The axis

Magnitudes

Apparent magnitude
Absolute magnitude

Variable stars

Cepheid variables
Pulsars



Stellar distances

Parsecs
Light years

GCSE Mock exam

SPRING TERM

Active galaxies

Supermassive black hole
Accretion disc

Hubble's classification
Tuning fork diagram

Classification of galaxies

Groupings of galaxies

Local group
Clusters

The Sun's location
Barred spiral galaxy

The Milky Way

Evolution of the H-R diagram

Red giants
Blue giants

Supernovae
Neutron stars

Evolution of massive stars

Evolution of solar-mass

Planetary nebulae
White dwarfs

Radio telescopes

Jodrell Bank
Bernard Lovell

Nebulae and clusters

Emission nebulae
Birth of stars

Other wavelengths

Infrared
X-rays

End of unit test

SUMMER TERM

Hubble's law

Expanding Universe
Red and blue shift



Dark matter and dark energy



The Big Bang

Different models
Supporting evidence

Revision: Telescopic astronomy

Revision: Naked eye astronomy

GCSE Astronomy exams