

Review Exam 1

Chapter 1

Vocabulary

Universe	Astronomy	Light Year
Scientific Method	Hypothesis	Constellations
Astrologers	Celestial Sphere	Rotation
Celestial Poles	Celestial Equator	Angular Positions
Solar Day	Diurnal Motion	Sidereal Day
Seasonal Changes	Ecliptic	Zodiac
Summer Solstice	Winter Solstice	Spring Equinox
Autumnal Equinox	Tropical Year	Precession
Sidereal Year	Zenith	Meridian
Mean Solar Day	Time Zones	Standard Time
Universal Time	Leap Day	Earthshine
Eclipse	Umbra	Penumbra
Nodes	Parallax	

- ÿ Know how many planets in our solar system
- ÿ Know where the Earth is in our galaxy
- ÿ Know what is meant by the universe and astronomy
- ÿ Know how big the Milky Way is and how many stars are in it
- ÿ Know what a light year is
- ÿ Know what a theory is
- ÿ Understand what is meant by the scientific method
- ÿ Know when modern science was born
- ÿ Know what a hypothesis is
- ÿ Know what constellations are
- ÿ Know what the astrologers were
- ÿ Know what is meant by the celestial sphere
- ÿ Know why the stars move around us
- ÿ Know what the celestial poles and the celestial equator are
- ÿ Know what is meant by angular positions
- ÿ Know what the easiest time of day to determine is
- ÿ Know what a solar day is
- ÿ Know what we call the movement of the Sun and stars across the sky is called
- ÿ Understand what a sidereal day is
- ÿ Know what is meant by seasonal changes
- ÿ Know what the ecliptic is
- ÿ Know how much the Earth tilts
- ÿ Know when both solstices and both equinoxes are
- ÿ Know what the tropical year is and how long it is
- ÿ Know what precession is and how long it takes
- ÿ Know what is meant by a sidereal day
- ÿ Know what the zenith and meridians are
- ÿ Know that we both rotate and revolve
- ÿ Understand a mean solar day

- ÿ Know what the time zones are and what is meant by standard time
- ÿ Know what Universal time is
- ÿ Know why we have phases of the Moon
- ÿ Know the phases of the Moon
- ÿ Know why an eclipse occurs
- ÿ Know the different kinds of eclipses and what has to happen for them to happen
- ÿ Know what the umbra and penumbra are
- ÿ Understand what is meant by eclipse seasons
- ÿ Know what parallax is

Chapter 2

Vocabulary

Supernova	Retrograde Motion	Prograde Motion
Inferior Planets	Superior Planets	Conjunction
Opposition	Geocentric Model	Heliocentric Model
Copernican Revolution	Ellipses	Semi Major Axis
Eccentricity	Inertia	Escape Velocity
Bound Orbit	Unbound Orbit	

- ÿ Know why places like Stonehenge and the Medicine Wheel are so important
- ÿ Know that the Chinese kept excellent records
- ÿ Know that the Chinese recorded a supernova in the 1000's
- ÿ Know who did the most intellectual work during the Dark Ages in Europe
- ÿ Know what is meant by retrograde and prograde motion
- ÿ Know the difference between inferior planets and superior planets
- ÿ Understand the difference between conjunction and opposition
- ÿ Know what is meant by a geocentric model and who first proposed it
- ÿ Know why Aristotle's followers said it could be the Earth moving
- ÿ Know who fixed Aristotle's model of the solar system
- ÿ Know what the heliocentric model is and who brought it forth
- ÿ Know what Galileo did to help challenge the geocentric model
- ÿ Know who the greatest naked eye observer was and what he did
- ÿ Know what Johannes Kepler did
- ÿ Know what a transit is and how it was used to measure distance
- ÿ Know Newton's 3 laws of motion
- ÿ Understand what is meant by gravity
- ÿ Know what escape velocity is
- ÿ Understand the difference between a bound orbit and an unbound one

Chapter 3

Vocabulary

Visible Light	Waves	Crest
Trough	Period	Wavelength
Amplitude	Frequency	Spectrum
Nanometer	Proton	Electron
Neutron	Electric Field	Magnetic Fields

Electromagnetism
Temperature
Stefan's Law

Speed of Light
Blackbody
Doppler Effect

Electromagnetic Spectrum
Wein's Law
Radial Velocity

- ÿ Know what electromagnetic radiation is
- ÿ Know what the most familiar part of the electromagnetic radiation is
- ÿ Know that electromagnetic radiation moves in waves
- ÿ Know what crests and troughs are
- ÿ Know what is meant by wavelength
- ÿ Understand what the amplitude and frequency are
- ÿ Know what white light is
- ÿ Know what we use a prism for
- ÿ Know what the spectrum is
- ÿ Know what units we use to measure wavelengths
- ÿ Know what light has the longest and shortest wavelengths
- ÿ Know the parts of the atom
- ÿ Know what the electric field is
- ÿ Know what magnetic fields are
- ÿ Understand what electromagnetism is
- ÿ Know what the speed of light is
- ÿ Know what the electromagnetic spectrum is
- ÿ Know what 2 parts of the EMS reaches the ground easily
- ÿ Understand what temperature is
- ÿ Know what is meant by Blackbody or Blackbody curve
- ÿ Know what Wein's law is
- ÿ Understand how the energy varies according to Stefan's law
- ÿ Know what the Doppler Effect is and how it is used in astronomy
- ÿ Know what radial velocity is