Question guide for video Stargazing: How the sky works.

Name _____ Pd. _____ Date _____

Ancient people built monuments to the gods what non-religious purpose did they serve?

Has the view of the stars changed since ancient people built things like Stonehenge?

What has changed?

There is a band of concentrated stars the ancients thought was spilled milk. What is the band of stars called the Milky Way?

What shape is the milky way galaxy?

What is at the center of the galaxy?

How long does it take the sun to complete one orbit of the galaxy?

How far are we from the center of the galaxy?

How doe the size of the sun compare to the size of other stars?

What determines our “view of the cosmos”?

What are constellations?

What is the ecliptic?

Why does our view of the night sky change through the year?

What do the constellations of the zodiac do for us?

Why do Mercury and Venus barley rise above the horizon?

Why does Jupiter appear to go backwards for a time? (retrograde motion)

What is an eclipse?

Why do eclipses occur?

Why don’t we have more eclipses than we do?

What is the difference between a solar and a lunar eclipse?

Why does the moon look red during a lunar eclipse?

What is it called if the moon’s shadow does not reach the earth?

How often do solar eclipses occur?

What is the difference between a total solar eclipse and a partial eclipse?

Why do stars appear to move across the sky each night?

What are two common types of telescopes?

What is the difference between these telescopes?

What is it that makes the biggest difference in what you can see with a telescope?

The Hubble space telescope is much smaller than large ground based telescopes, why is it able to see more objects in greater detail than ground based ones?

What is the difference between an emission nebula and dark nebula?

What are the three main types of galaxies?