

Visit Trail



Astronomer Trail

Scout Trail

Name:

Troop:

Date:



To begin the trail, go to the **Our Solar System** gallery, as well as the Stellarium in **The Universe** Gallery.

Question 1

Explain why the stars that we can see in the night sky change throughout the year
Hint: think about the way in which the Earth spins on its axis, and orbits the Sun - The Tellurion Orrey demonstrates this well.



Question 2

Match each of these words to their correct definition.

Hint: start by matching the definitions which you definitely know, and then move onto the ones you aren't so sure about!

Celesitial sphere

This describes an object close to one of the Earth's poles, such that it never appears to set or rise in the sky. For example, the constellation Ursa Major is circumpolar over the United Kingdom.

Equator

This describes an imaginary sphere surrounding the Earth, which has a centre the same as the centre of the Earth.

Poles

This describes two points on the surface of a rotating planet about which the planet will spin on its axis.

Circumpolar

This describes an imaginary belt running across the sky in which the Sun, Moon and all planets are always found.

Zodiac

This describes an imaginary line on the Earth's surface going around the middle of the Earth, splitting the Earth into North and South halves.



Now look at the **Moon** exhibit in **Our Solar System** Gallery.

Question 3

Explain how the Moon affects the tides on Earth.

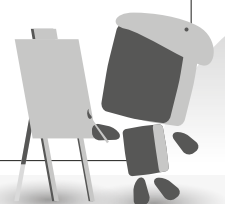
Hint: think about the way the Moon orbits the Earth.

Question 5

Have a go at using Professor Clegg's Observatory.

Can you identify three constellations in our night sky? Can you draw them?

Why not look online and find out their stories when you get home?





Question 6

Continue to explore the National Space Centre

What satellites can you find around the galleries? Draw three of them below, and use their info panels to write a mini fact-file about them. *Hint: look up!*

