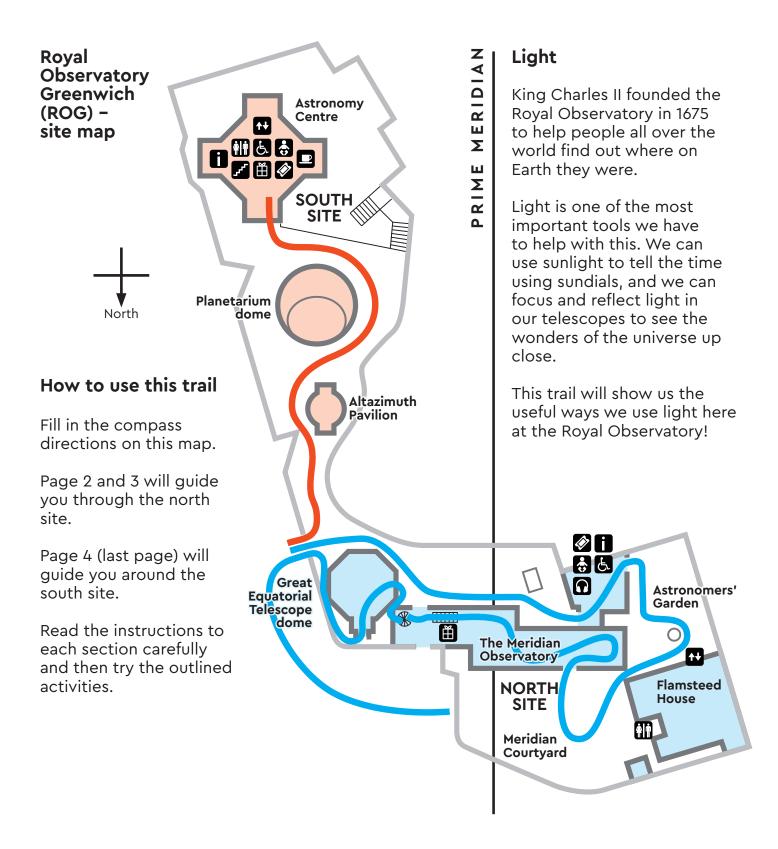
KS2 School Trail





KS2 School Trail - NORTH SITE



Greenwich Noon Dial

On a sunny day, this clever creation casts a sun-shaped shadow with a spot of light at its centre onto its dial plate.

Where the shadow falls at midday tells us what month it is, written in Roman Numerals. Can you fill in the missing numbers below?

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC
I		III	IV		VI	VII	VIII	IX	Χ		XII

If it's sunny and close to midday - what month does it show on the noon dial?

Roman numbers might look a bit odd but from the ones shown above, can you write 13 as the Romans would have done?



Greenwich Noon Dial



3

Garden Sundial

There are many different types of sundial to be found. The Garden Sundial is special as it uses animals to indicate the time.

This sundial will tell you the time AND date because it has been constructed in a special way. It is very accurate.

What are the 2 animals shown?

Herschel's telescope

This is actually only part of it.
The rest was crushed when a
tree fell on it. The full length
of the telescope was 40 feet
four times longer than what
you see here.



The telescope used a mirror made of metal!

The telescope was used to look at the light from

If it is sunny, look at where the gap in the shadow of the tails falls on the curved plate. What time and month does it show?

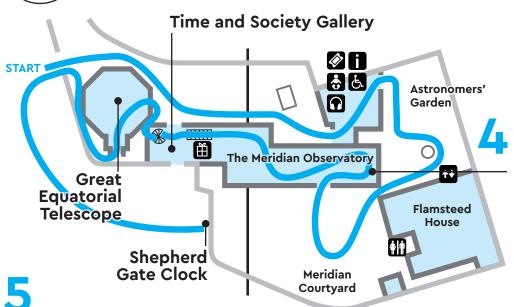
Time

Month

Fun Fact

The Garden Sundial used to be located outside the National Maritime Museum, that's why it has a waterbased theme.

KS2 School Trail - NORTH SITE

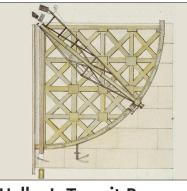


Time and Society Gallery

This gallery has many clocks and also quite a few sundials. Find a sundial you like and draw it in the space.

Can you use a sundial at night?

Your favourite sundial



Halley's Transit Room

Here, there is a telescope that looks straight up and down. Our eyes are like minitelescopes - they collect light to allow us to see things.

One similarity between our eyes and a telescope is...

One difference between our eyes and a telescope is...



The Great Equatorial Telescope

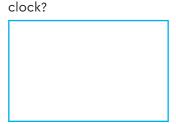
It is the biggest telescope of its kind in the country! It was built in the late 1800s and has a 28-inch glass lens at the top. The telescope is over 28 feet long!



Shepherd Gate Clock

Find the Shepherd Gate Clock outside the main observatory gates. It is a bit different to a normal clock.







What is different about this This photograph of the Shepherd Gate Clock is from 1870. See if you can recreate it! (Maybe your teacher has a camera or mobile phone).

KS2 School Trail - SOUTH SITE Astronomy Centre Planetarium dome

Peter Harrison Planetarium

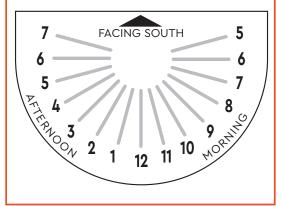
Under this 45-ton bronzeclad cone is the Peter Harrison Planetarium. If you look up at the sky along the line at the back of the cone, it will show you where the North Star is - if it was night time!

When the Sun shines, the cone acts as a sundial by casting a shadow - it's how people told the time before clocks were





..and where would the Sun's shadow be on this sundial?



Altazimuth Pavilion

The Altazimuth Pavilion is now home to a telescope called AMAT (Annie Maunder Astrographic Telescope) - it's actually 4 telescopes in 1!

On top of its dome is a weathervane shaped like Halley's comet. The comet was first identified to be orbiting the Sun by Astronomer Royal Edmond Halley in 1705. The bright light it produced made it visible to the naked eye.



Draw your own weathervane (It should be a space-related object).



Fun Fact

Halley saw his famous comet in 1682 (along with John Flamsteed). He used Isaac Newton's laws of gravity to



figure out that it returned every 76 years, but didn't live long enough to see if he was correct.