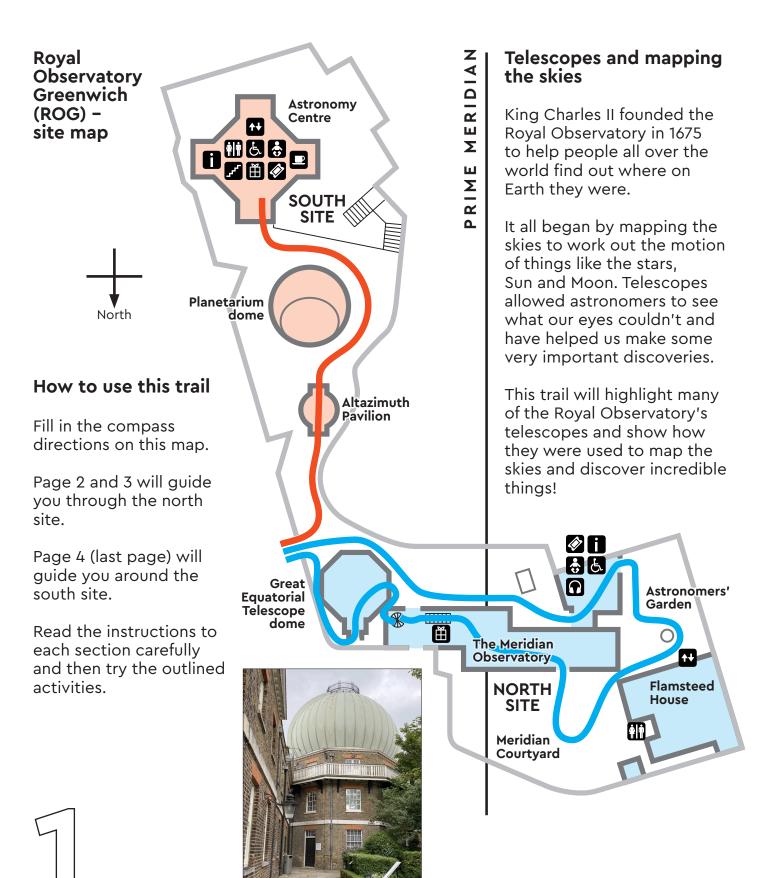
KS3 School Trail





KS3 School Trail - NORTH SITE



Fun Fact

Herschel initially called it 'Georgium Sidus' in honour of King George III of England, but the name we use today was chosen to fit with planetary naming conventions (must be from Greek / Roman mythology).

What did William Herschel become famous for discovering?

Z

Dolphin sundial

Look out for the Dolphin Sundial. Sundials are used to tell the time by using the shadow cast by the sun.



Find the time, by looking at where the gap in the shadow falls on the curved plate (where the shadows of the dolphins' tails almost meet).

Dolphin Sundial time

Watch / phone / clock time

The Sun is currently in the direction of:

(Use the compass/map on page 1 of this trail to help you).

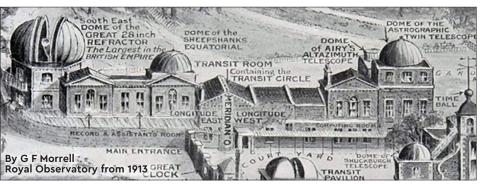
Circle on this diagram, all the domes you can see which still exist today.

Telescopes were later built inside domes. The opening could then be rotated making observations easier! The Sun seems to move across the sky throughout the day and, at night, the stars appear to move too. But they're not actually moving! Can you explain why?

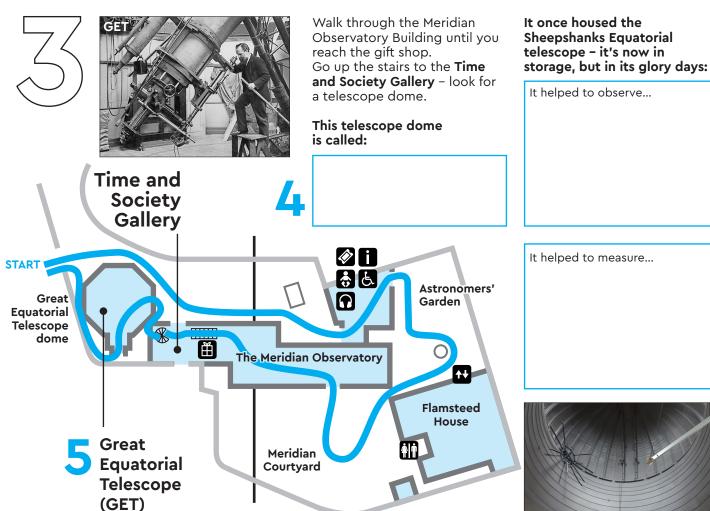


run north to south or east

to west?



KS3 School Trail - NORTH SITE

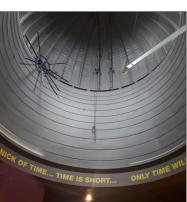


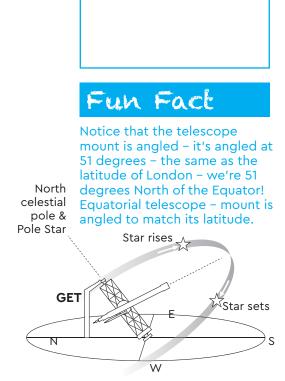
From the Time and Society Gallery - walk up the spiral staircase to the GET dome!!

A surprising fact about the GET is...

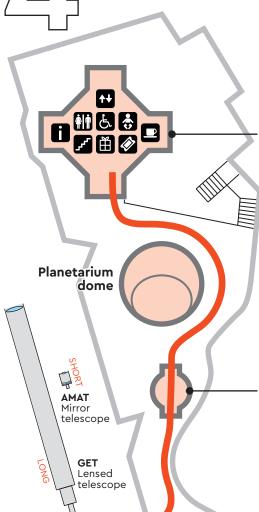
Sketch the GET and add the following labels:

28-inch lens, equatorial mount, eyepiece, finderscope, main telescope tube.





KS3 School Trail - SOUTH SITE



START

Sun's surface

To view the

Moon and planets close up

Astronomy Centre

Look around the outside of the **Astronomy Centre** building - can you spot the names of any famous astronomers / scientists? Write down any names you've heard of and anything you already know about them.

Telescope is the UK's largest lensed telescope, but professional astronomers often prefer telescopes that use

The Great Equatorial

CHALLENGE:

mirrors - why do you think this is the case?

2

Clues might be found on this page.

Altazimuth Pavilion

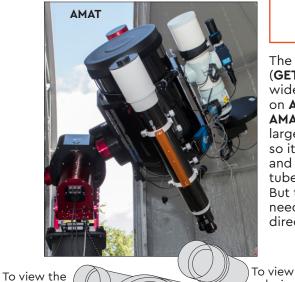
The Altazimuth Pavilion is now home to a telescope called AMAT (Annie Maunder Astrographic telescope) it's 4 telescopes in 1!

The Altazimuth building has a dome at the top, why do you think it was built like this?

Fun Fact

Annie Maunder was one of the first female scientists to work at the ROG. She got a job at Greenwich in 1891 working as a "lady computer", doing supporting calculations for male scientists.

But she became a great solar eclipse photographer and helped make key discoveries about the Sun's 11 year solar cycle.



To view the Moon

and planets

The Great Equatorial Telescope (**GET**) is x14 longer and x2 as wide as the largest telescope on AMAT!

AMAT is small but powerful – its largest telescope uses mirrors so it can reflect the light back and forth inside the smaller tube to focus the light. But the **GET** uses lenses and needs a long telescope tube to direct the light to focus it.

galaxies,

nebulae and star

clusters



Two of the images below were taken by AMAT - tick the correct images. The other was taken by the GET.







Check your answers at the bottom of the first page