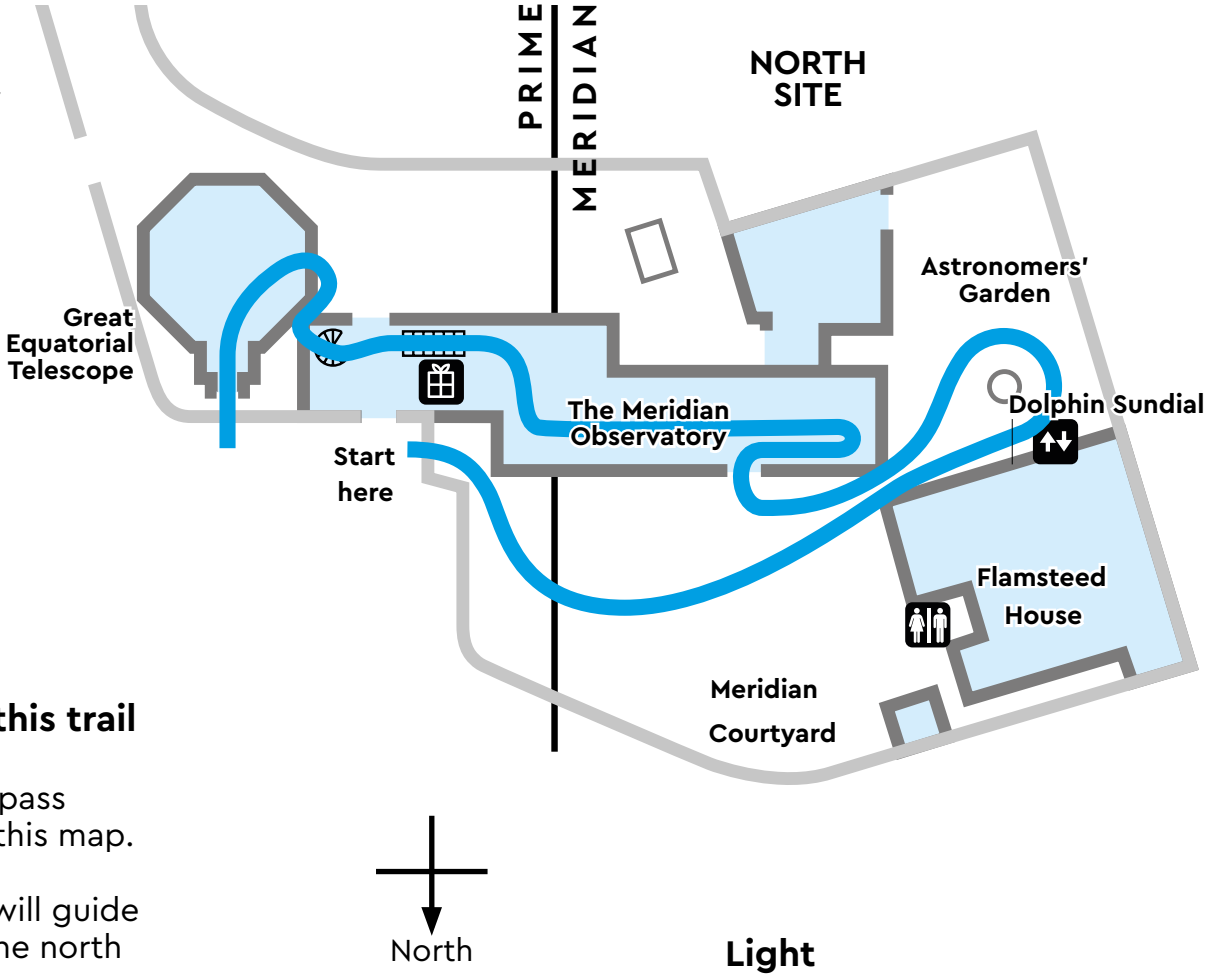
KS2 School Trail

ROYAL OBSERVATORY GREENWICH

Royal Observatory Greenwich (ROG) – site map



How to use this trail

Fill in the compass directions on this map.

Page 2 and 3 will guide you through the north site.

Read the instructions to each section carefully and then try the outlined activities.

Light

King Charles II founded the Royal Observatory in 1675 to help people all over the world find out where on Earth they were.

Light is one of the most important tools we have to help with this. We can use sunlight to tell the time using sundials, and we can focus and reflect light in our telescopes to see the wonders of the universe up close.

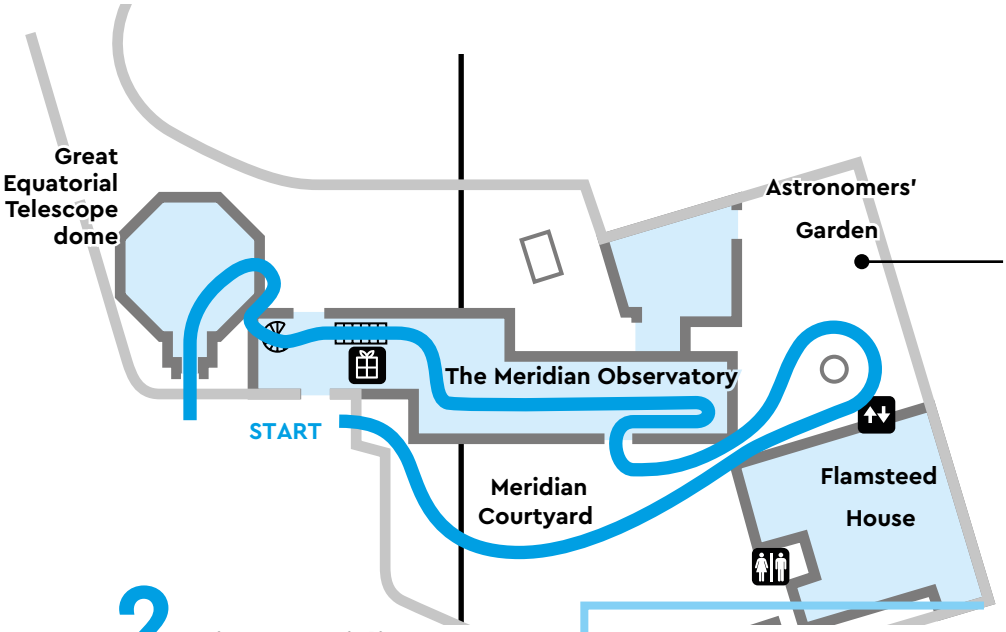
This trail will show us the useful ways we use light here at the Royal Observatory!

Answer – 10 Hippos

KS2 School Trail – NORTH SITE

1 The view from the hill

This Observatory was built on top of this hill in 1675 as it meant they had a clear view of lots of the sky, so light from lots of stars could reach them, without trees or buildings in their way. Imagine one of the astronomers looking out over this view. Can you list some ways you think the view of London has changed over 350 years?



2 Prime Meridian

The Prime Meridian is the line of longitude that divides the Earth into its eastern and western hemispheres.

What's the name of the line that divides the Earth into its northern and southern hemispheres?

.....

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 water-based theme.

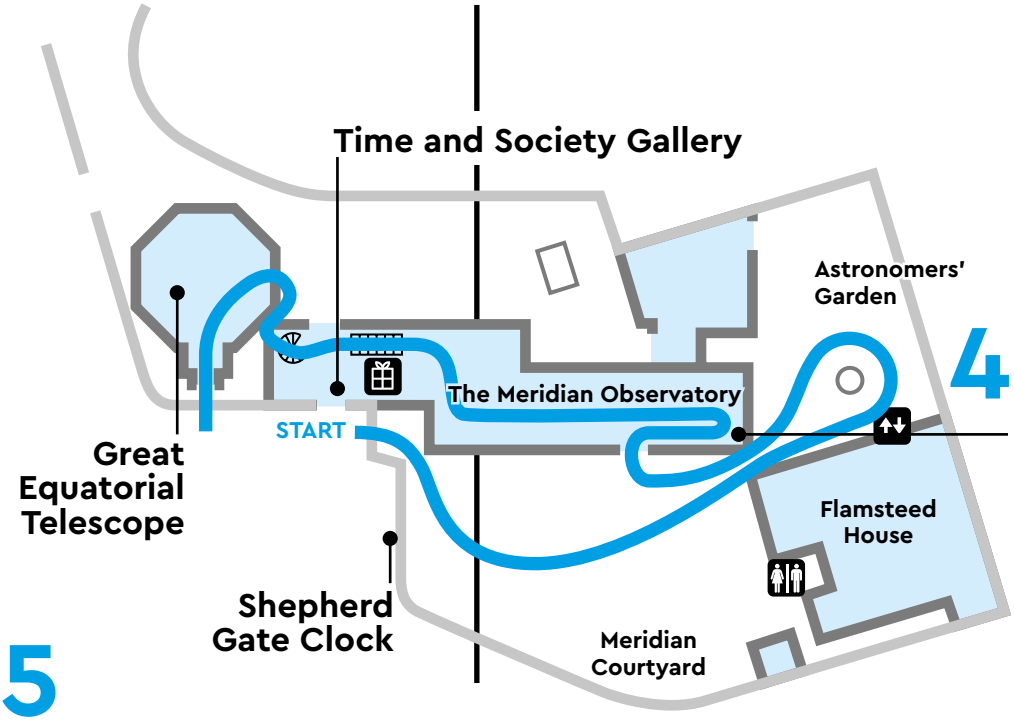
3 Garden Sundial

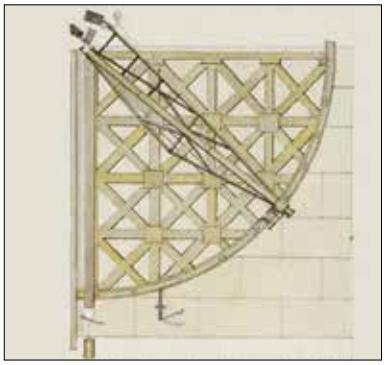
There are many different types of sundial to be found. The Garden Sundial is special as it uses animals to indicate the time.

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?

KS2 School Trail – NORTH SITE





4 Halley's Transit Room

Here, there is a telescope that looks straight up and down. Our eyes are like mini-telescopes – 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...

5 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

6 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!

How many 'hippos' do you think it weighs?

Answer on page 1

7 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 clock?

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).