

Monday 1st February

Learning Objective

Today we are learning about time zones.

Success Criteria

I will be successful if:

- I can explain why day and night occur at different times at different places on Earth.
- I can make predictions for when it will be day and night in certain countries.
- I can check my predictions using a time zone map.

Night and Day: Time Zones

What are time zones?

Time zones are divided by imaginary lines called **meridians** which run from the North Pole to the South Pole. There is an imaginary line running through the UK called the **Prime Meridian**. It runs through a place in London called **Greenwich**. The Prime Meridian splits the world into eastern and western **hemispheres**.

Time in countries to the east of the Prime Meridian is always in front of that in the UK. Time in countries to the west of the Prime Meridian is always behind that of the UK.

Time in different parts of the world

As the Earth rotates on its **axis**, the Sun only shines on the side of the Earth that it is facing. This means:

- it is **daytime** for the parts of the Earth that have the Sun shining on them
- it is **nighttime** for the parts of the Earth that do NOT have the Sun shining on them

As it is night in some parts of the world while it is day in other parts, different places in the world have different times. This is why the world is divided into **24 different time zones**. One for each hour in a day.

Night and Day: Time Zones

Type the following into Google to watch a video explaining more about time zones.

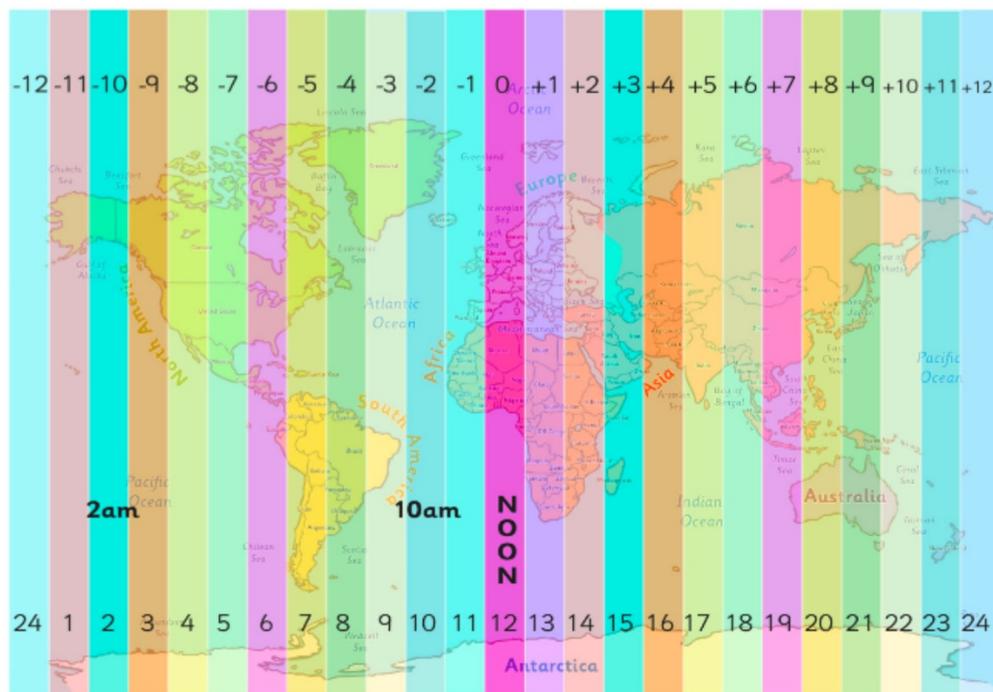
BBC bitesize KS2 time zones

Night and Day: Time Zones

Imagine that it's 12pm (midday) in the UK. Which country do you predict will have sunrise, which country do you predict will have sunset and which country do you think will be in the night? Then check your prediction using the time zones map on the next slide. If you were incorrect, which countries should it have been?

Time	Sunrise (on average around 6am)	Midday (12pm)	Sunset (on average around 7pm)	Night (12am)
				
Prediction (Country)		UK		
Prediction Correct? Tick ✓ or Cross ✗				
If prediction was incorrect, what country/countries should it have been?				

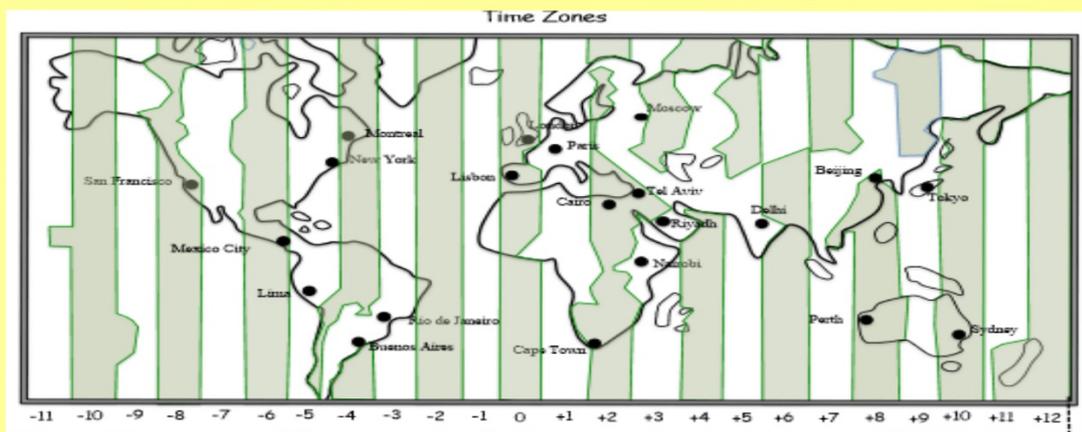
Time Zones by Country Map



← Time is behind the UK (WEST) Time is in front of the UK (EAST) →

Night and Day: Time Zones

Now write a paragraph explaining why day and night happen at different times in different countries. Use the previous slides to help, include the key vocabulary below and try to put information into your own words as much as possible.



axis rotates Earth Sun daytime nighttime

shines shade places/times time zones 24

Night and Day: Time Zones

Now try this ordering exercise. Have a go without looking at the time zones map first, then check your order using the map.

Who celebrates New Year first? Cut out and put these countries in the correct order:

Brazil	Jamaica
UK	France
Thailand	Egypt
New Zealand	Madagascar