

**Space**  
**KS2**  
**Wednesday - Maths**

Our maths today is going to be working on times and distances. First Complete this table to find out how many hours and minutes of daylight we have each day this week.

Day	Sunrise	Sunset	Hours and Minutes of Daylight
Monday	6:37	19:28	
Tuesday	6:35	19:30	
Wednesday	6:33	19:32	
Thursday	6:30	19:33	
Friday	6:28	19:35	
Saturday	6:26	19:37	
Sunday	6:24	19:38	

**Next you are going to draw the solar system to scale.**

What does a scale on a map mean? E.g. 1: 100000

This means that 1cm on the map = 100,000cm in real life (this is the same as 1km)

We are going to use the scale 1: 200,000,000,000

This is the same as 1cm : 2,000,000 km

Here is a table with the distance of the planets from the sun.

Planet	Distance (km)	Scale distance (cm)
Mercury	58,000,000	
Venus	108,000,000	

Earth	150,000,000	
Mars	228,000,000	
Jupiter	778,000,000	
Saturn	1,427,000,000	
Uranus	2,871,000,000	
Neptune	4,497,000,000	
Pluto	5,913,000,000	
Sun	0	0

To work out the distances you can divide the real distance by 2,000,000.

Then draw this so you have a perfect scale factor of the solar system. Remember to measure from the centre of each planet.

Use a compass to get them perfectly circular.

You will need to stick some paper together or use large pieces of paper.