Week commencing 4th May

<u>Learning to explore how the rotation of Earth creates day and night.</u>

First watch these two videos on how day and night are created.



https://www.bbc.co.uk/bitesize/clips/zrd9wmn



https://www.bbc.co.uk/bitesize/clips/zkynvcw

Task

Make your own sundial.

There are several different ways to create a sundial.

1) Print off the template attached to this document and using playdough, plasticine or blutac, stick a pencil into the centre. Here is the one I made!

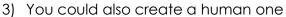


2) You could create one using a paper plate.



Watch the video to see how to do it

https://www.youtube.com/watch?v=oSMsX7cwzjk





Standing in the same place each time you go outside and either drawing around your shadow with chalk (like they do in the video) or placing rocks where each shadow falls.

Can you think of any other ways to create a Sundial?

Once you have created your sundial take it outside (do this before midday) and check the sundial marking off where the shadow falss and what time it is each time you go out. Try and do this at least once an hour.



If you do not have an garden, balcony or outside space you can use, you can still do this inside. Place your sundial infront of a sunny window. It will still work.

The only problem we may have is lack of sun! It's pretty cloudy here as I type this, so you may have to wait a few days to complete this task. Fingers crossed the sun comes back soon!

Once you've complete the task answer these questions.

What do you notice?
What does this tell us about the Earth's movement?
Remember the sun does rotate around the earth. The sun is NOT moving.
How could you use this sundial to tell the time?

Email me a photo of your sundial and the anwsers to the questions.

Remember only go outside to do this if it safe!

