## Fens Primary School Knowledge Organiser



Science Focus:	Earth and Space	Year 5	Torm:
science rocus.	Earth and Space	reurs	Term:

	The Earth and the Sun	
WARNING	IT IS NOT SAFE TO EVER LOOK DIRECTLY AT THE SUN, EVEN WHEN WEARING SUN GLASSES.	
What is the Sun?	The sun is a star at the centre of our solar system.	
What is the solar system?	The solar system has eight planets: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune.	
How is the Earth related to the Sun?	The Earth orbits (goes around) the Sun. The Earth takes one year to orbit the Sun. The Earth is held in its orbit round the Sun by the Sun's gravitational pull.	



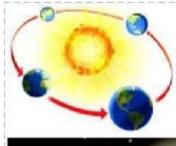
## Working as a Scientist

- Use the internet (pen pals) to establish that the time of day is different in different places in the world.
- Creating working models of the above diagrams.
- Making shadow clocks or sundials.

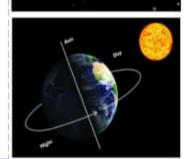
## Our solar system is a very small part of one of billions of

Our Sun and eight plant and other smaller objects orbiting it comprise the solar system. Day and night and the seasons are explained by the orientation and rotation of the Earth as it moves round the Sun.

## Diagrams and Symbols







The Earth spinning on its axis, which takes 24 hours.

Earth, which takes about 28 days.

The Earth orbiting the

	The Moon and the Earth	
What is a moon?	A moon is a celestial body that orbits a planet.      The Earth has one moon; Jupiter has four large moons and numerous small ones.	
How is the Moon related to the Earth?	The Moon orbits the Earth. It takes about 28 days for the Moon to orbit the Earth. The Moon is held in its orbit round the Earth by the Earth's gravitational pull.	
Why does the Moon change shape?	IT DOESN'T.  It appears to change shape because we cannot always see the side of the Moon that's in sunlight or we can only see part of the sunlit side of the Moon as it orbits Earth.	
The rotation of the Earth		
How else does the Earth	The Earth spins on its own axis. The Earth takes 24 hours (1 day) to com-	

How else does the Earth move?	The Earth spins on its own axis.  The Earth takes 24 hours (1 day) to completely rotate on its axis.	
What causes day and night?	The Earth spins once in a day.  The side of the Earth facing the Sun is in day- time.  The side of the Earth facing away from the Sun is in night time.	
What causes Sunrise and Sunset?	The Sun doesn't move - it is us that moves.  Because the Earth is rotating, the Sun appear to move across the sky as the day goes on.	

What? (Key Vocabulary)				
Spelling	Definition/Sentence			
Solar	Relating to the Sun			
Orbit	The curved path of an object around a star			
Axis	An imaginary line round which something rotates			
Rotating	Moving in a circle around an axis			
Gravitational	Moving towards a centre of gravity			