Knowledge Organiser						
Science Focus		Earth and Space	Year 5		Autumn 1	
What? (Key Knowledge)			The rotation of the Earth			
The Earth and the Sun			How else does the Earth	 The Earth spins on it's own axis The Earth takes 24 hours (1 day) 		
WARNING It is not safe to look directly at the Sun, even when wearing sunglasses.			move? What causes day and	 to completely rotate on its axis The Earth spins once a day The side of the Earth facing the 		
What is the Sun?	• The Sun is the star at the centre of our solar system		night?	Sun is in daytimeThe side of the Earth facing away from the Sun is in night time.		
What is the solar system? How is the	 The solar system as 8 planters: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune. The Earth obits (goes around) the 		What causes sunrise and sunset?	 The Sun doesn't move – it's us that moves Because the Earth is rotating, the Sun appears to move across the sky as the day goes on. 		
Earth related to	 The Earth takes one year to orbit the Sun. The Earth takes one year to orbit the Sun. The Earth is held in its orbit by the Sun's gravitational pull. 		Pictures and Diagrams			
the Sun?			Construction State Stream Construction Mars			
The Moon and the Earth			lunitor	Jupiter San		
What is a moon?	orbits a pla • The Earth	a celestial body that anet has one moon; Jupiter hs ons and numerous small	Upiter Venus Earth Asteroid belt Venus Neptune			
How is the Moon related to the Earth?	 The Moon orbits the Earth. It takes about 298 days for the 		What? (Key vocab)			
	Moon to o	rbit the Earth.	Spelling		Definition	
		is held in its orbit round by Earth's gravitational	Solar	Relating	g to the Sun	
Why does the Moon change shape?	 IT DOESN'T, it just appears to change shape. The half of the Moon that points toward the Sun looks bright because it is lit by sunlight. The Moon appears to change shape because we see different 		Orbit		ved path of an object a star or planet	
			Axis	-	ginary line around which ing moves	
			Rotating	Moving	in a circle around an axis	
	amounts o	the lit part as the s Earth As it moves	Gravitational	Moving gravity	towards the centre of	
		rth, more and more of comes into view.	Р	ossible e	experiences	
	I			 Use the internet (pen pals) to establish that the time of day is different in different places in the world 		

- world.Create a working model of the solar system
- Make shadow clocks or sundials