• W				
• V	What should I already know?			
• T • K fr	he sun i now tha om pass	s a source of light but th	mer, Autumn, Winter (Y1) ne moon is not (Y1) hen an object blocks light	
What will I know by the end of the unit?				
What causes day and night?	•	makes a complete rotat This makes it appear as sky but the earths rotat Different parts of the ea different times – this m ternoon and night I diff reason why we have tir Because of the earth's t	ilt, the poles experience 24 summer and very few hours r. adows that are formed	
Year length and the sea- sons	•	sun.		
The Moon	•	approximately 28 days. The moon spins once or earth. This means we o	n its axis every time it orbits nly see one side of the moon. phases depending on where	
What is the solar sys- tem?	• • •	There are 8 planets (Me Saturn, Uranus and Ne et. They all orbit the sun, w have moons. The first 4 planets are r the 4 outer planets are urn) or ice giants (Uran There are also asteroids the solar system.	rcury, Venus, Mars, Jupiter, ptune). Pluto is a dwarf plan- which is a star, and they all relatively small and rocky, gas giants (Jupiter and Sat-	

Vocabulary		
asteroid	a rock that orbits the sun between Mars and Jupite	
axis	an imaginary line through the middle of somethin	
comet	a bright objects with a long tail that travels arour the Sun	
earth	Earth is one of the eight planets that orbit, or travel around, the Sun in the solar system	
galaxy	an extremely large group of stars and planets, our galaxy is called the Milky Way	
gravity	the force which causes things to drop to the ground	
hemi- sphere	a hemisphere is half of a sphere, or ball	
leap year	a year which has 366 days (29 th February), which happens every 4 years	
moon	the large round object that circles the Earth and that shines at night by reflecting light from the sun	
meteor- ite	a rock from outer space that had landed on Earth	
orbit	the curved path is space that is followed by an object going round and round a planet, moon or star	
revolve	to go round in one direction	
rotates	when something turns or spins around a point lo- cated at its centre	
planet	a large, round object in space that moves around a star	
shadow	a dark shape on a surface that is made when some- thing stands between a light and the surface	
solar system	the sun and all the planets that go round it	
spherical	an object shaped like a ball	
star	a large ball of burning gas in space	
sun	the closest star to Earth and it is the source of all the heat and light	
time zone	one of the areas into which the world is divided where the time is calculated as being a particular number of hours behind or ahead of GMT	
universe	the whole of space and all the stars, planets and other forms of matter and energy in it	

Strand: Physics

Investigate!

- Compare the time of day at different places on earth .
- Construct shadow clocks and sundials
- Keep a moon diary over the course of a month—what do you notice?