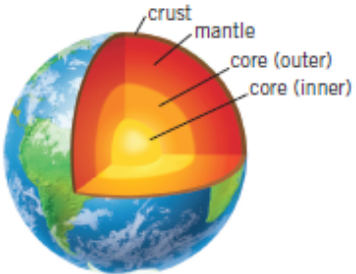


Types of rock			
	Type of rock	How is it formed	Properties
1	Sedimentary rock	Sediment piles up in one place and, over many years, sticks together by compaction or cementation	<ul style="list-style-type: none"> <li>• Porous: made of small grains stuck together so there are holes that water can pass through</li> <li>• soft: easy to break apart the sediment</li> </ul>
2	Igneous rock	When liquid rock cools it turns into igneous rocks these are made of crystals locked tightly together	<ul style="list-style-type: none"> <li>• Durable and hard (difficult to damage): the crystals are locked tightly together</li> <li>• not porous: there is no space between crystals</li> </ul>
3	Metamorphic rock	Other rocks under that Earth are heated and put under pressure <ul style="list-style-type: none"> <li>• over time, these rocks become metamorphic</li> </ul>	<ul style="list-style-type: none"> <li>• Not porous: there is no space between the crystals</li> </ul>

Key Vocabulary		
1	Core	The innermost layer of the Earth, which extends about halfway from the centre of the Earth to the surface.
2	Crust	The rocky outer layer of the Earth.
3	Mantle	The layer of Earth that is below the crust. It is solid but can flow very slowly.
4	Rock Cycle	Sequence of processes where rocks change from one type to another, over a timescale of millions of years.
5	Orbit	Path taken by one object moving around another larger object, such as a satellite around the Earth. Earth completes one orbit of the Sun every year
7	Milky Way	Galaxy containing our Sun, Solar System, and billions of other stars and planets
8	Natural satellite	A moon in orbit around a planet.
9	Night	The period on one section of the Earth, or other planet, when it is facing away from the Sun.

### The Earth

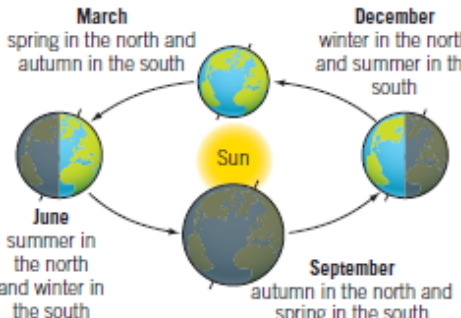


The Earth has three main layers:

- The **crust** is rocky and solid
- The **mantle** is made from mainly solid rock but this can flow
- The **outer core** is liquid metal and the **inner core** is solid

### The spinning Earth

- The Earth takes 365 days to **orbit** the Sun, this is one Earth **year**
- The Earth takes 24 hours to spin on its axis, that is why we have day and night
- The Earth's **axis** has a tilt of 23.4° which gives rise to our **seasons**



The solar system		
1	Our solar system consists of eight planets which orbit the Sun, four inner and four outer planet. The inner planets (small and rocky) are Mercury, Venus, Earth and Mars. The outer planets (gas giants) are Jupiter Saturn, Uranus and Neptune. Between the inner and outer planets, between Mars and Jupiter there is the asteroid belt.	
2	The planets all orbit the sun, but the path of their orbits are all slightly different.	
3	A galaxy is a collection of stars, our galaxy is known as the Milky way. Stars produces their own light. Planets are large objects which do not produce their own light but orbit stars.	