## P1 Chapter 7: Earth Knowledge organiser



## **Types of rock**

Type of rock	How it is formed	Properties	Uses		
sedimentary rock	<ul> <li>sediment piles up in one place and, over many years, sticks together by compaction or cementation</li> <li>compaction: weight of sediments above squeeze them into rocks</li> <li>cementation: another substance sticks the sediments together</li> </ul>	<ul> <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 sediments</li> </ul>	building materials (e.g. <i>sandstone</i> and <i>limestone</i> )		
igneous rock	<ul> <li>when liquid rock cools it turns into igneous rocks these are made of crystals locked tightly together</li> <li>magma: liquid rock underground-cools slowly and forms large crystal</li> <li>lava: liquid rock above the ground-cools quickly and forms small crystals</li> </ul>	<ul> <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>	pavement rail tracks		
metamorphic rock	<ul> <li>other rocks under that Earth are heated and put under pressure</li> <li>over time, these rocks become metamorphic</li> </ul>	<ul> <li>not porous: there is no space between crystals</li> </ul>	marble used for kitchens slate used for roofing tiles		

## The Solar system

Our **solar system** consists of eight planets which orbit the Sun, four inner and four outer planets

Inner planets	Outer planets				
Small and rocky planets	Gas giants				
(dwarf planets)					

Mercury, Venus, Earth, Mars

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Jupiter, Saturn, Uranus, Neptune

• Between the inner and outer planets, between Mars and Jupiter, there is the **asteroid belt** 

 The planets all orbit the Sun , but the path of their orbits are all slightly different, giving them the look of 'wandering' in the sky

## The rock cycle

The **rock cycle** shows how rocks change and how their materials are recycled over millions of years

$\bigcirc$	) Key terms	Make sure y	you can v	vrite definit	ions for these key term	ıs.				•••••	••••		
			aster	oid belt	artificial satellite	axis	crust	deposition	durable	dwarfplanet	galaxy	gas giar	nts igneou
		m	lagma	mantle	metamorphic rock	milky	way	natural satellite	outer con	re orbit	phases of	the moon	planet
						sedimen	t se	dimentary rock	solar syste	em star	sun u	niverse	year
	•••••	• • • • • • • • • •											





rock cycle

season

porous

The night sky

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