Answer sheet

Rocks, Relics and Rumbles

		Subject/Aspect	
•	Match each descr	ription to the correct layer of the Earth.	Geography
	crust	magma layer	The Earth's layers
	mantle	hot, liquid metal layer	
	inner core	hard, solid rock layer	
	outer core	hot, solid metal layer	
		ance and properties of each type of rock in the table. been done for you.	Geography Comparing and grouping rocks
	Type of rock	Appearance and properties	
	sedimentary	soft, permeable, layers, grains, fossils	
	igneous	contain crystals, no fossils, may be shiny, glassy or dull, hard, usually impermeable and may have tiny holes	
	metamorphic	very hard, may contain layers or bands of crystals, may be dull or shiny, no fossils and impermeable	
3.	Use the useful wo	ords to fill in the missing word or words in each sentence.	Science
	seas, lakes and riv	s form from layers of sediment that settle at the bottom of vers. The top layers squash the layers underneath and the bock over millions of years.	Formation of rocks
	·	formed when <i>magma</i> or <i>lava</i> cools and hardens.	
	Metamorphic roc	ks are formed when other rocks change due to the <i>heat</i> and	
	<i>pressure</i> from un		





	Questions and answers	Subject/Aspect	
4.	What is a fossil?	Tick one	Science Formation of fossils
	a type of rock that forms over millions of years		
	a type of animal that is not alive anymore		
	the preserved remains of a once-living thing	\checkmark	
	the preserved remains of a building		
5.	Number these facts about how fossils form from 1–5 in the order in which they happen.		Science Formation of fossils
	The first one has been done for you.		
	Over millions of years, the rock is worn away by erosion to reveal the fossil.	5	
	Over time, more layers of sediment cover the remains and are compacted to form rock.	3	
	The soft parts of the living thing rot away, and the hard parts, like the skeleton, are left behind.	2	
	The living thing's remains are slowly dissolved and replaced with minerals from underground water. These minerals harden to form rock.	4	
	After a living thing dies, it becomes covered in layers of sand, mud and silt, called sediment.	1	
6.	Give two things Mary Anning did that were significant.		History
	E.g.		Significant people
	She taught herself about geology.Her specimens changed scientific thinking.		
	She helped people to learn about animals that have been dead for		
	time.She discovered the fossilised remains of several dinosaurs, such a	is the	
	 Ichthyosaurus, Pterodactylus and Plesiosaurus. Geologists and palaeontologists visited her so she could share he 		
	knowledge and lead expeditions.		
	She made some of the most important geological discoveries in h	istory.	
	She inspired many fossil hunters.She inspired artists and geologists, such as Henry De la Beche.		
7.	What are the three main types of soil?		Science Types of soil
	sand or sandyclay		Types of soil
	• silt or silty		

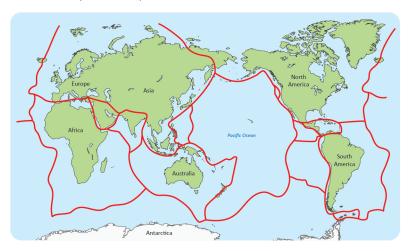




Questions and answers

Subject/Aspect

8. Look carefully at the map.



Geography

Plate tectonics

- a) What is the name of the pieces of the Earth's crust?
- b) What is the name of the places where the pieces meet?
- a) tectonic plates
- b) plate boundaries
- **9.** These two diagrams show the process of continental drift. Explain what changes happened to Earth between the two diagrams.



Geography

Plate tectonics

E.g.

- Earth's continents used to be joined together but they moved apart over millions of years.
- There used to be a supercontinent called Pangaea and it took a long time for the pieces to move apart.
- Continental drift happened, which means the continents slowly moved apart.
- **10.** Put a tick in the correct box to show whether each statement about the Ring of Fire is **true** or **false**.

	True	False
Countries along the Ring of Fire are more likely to have volcanic eruptions and earthquakes.	1	
The Ring of Fire sits on top of several tectonic plates.	1	
There are no volcanoes along the Ring of Fire.		1

Geography

Significant volcanoes





Questions and answers Subject/Aspect 11. Use the useful words to fill in the gaps in the paragraph. Geography Features of volcanoes A *volcano* is a mountain or hill with an opening in the Earth's crust that allows magma, gas and ash to reach the surface. There are two types of eruptions called *effusive* and *explosive* eruptions. When a volcano erupts, hot *ash*, *lava* and gas are released and an ash cloud forms. Hot air, ash and rocks sometimes rushes downhill like an avalanche. This is called a *pyroclastic flow*. Also accept effusive and explosive given in the opposite order. 12. Match each definition to the correct volcano status. Geography Features of volcanoes has not erupted in the last active 10,000 years but may erupt again has erupted in the last 10,000 dormant years and will erupt again is not expected to erupt again extinct **13.** Use the useful words to label the **four** main types of volcano. One has been Geography done for you. Features of volcanoes lava dome volcano cinder cone volcano

stratovolcano





shield volcano

	Question	Subject/Aspect		
14.	Use the useful words to label these	Geography		
	Lines of latitude	Lines of longitude		Latitude and longitude
	equator	Prime Meridian		
15.	Number these facts about the erup in which they happened.	History Significant events		
	The first one has been done for you	ı.		
	The huge column of ash and dust co pyroclastic flow towards Pompeii, co which hardened to rock. The people			
	Ash and rock rained down on the city took shelter in their homes.	ty of Pompeii. People in the	3	
	Several pyroclastic flows surged do pushing closer to the city of Pompe		4	
	A powerful earthquake shook the g Vesuvius.	round around Mount	1	
	Mount Vesuvius erupted, creating a above the volcano.	a huge column of ash and dust	2	
16.	An earthquake is caused when		Tick one	Geography Causes of earthquakes
	a tsunami hits the coastline.			
	the Earth's crust sinks.			
	the Earth's tectonic plates suddenly releasing energy that shakes the gr		\checkmark	
	magma comes through a crack in th	ne Earth's surface.		





Questions and answers Subject/Aspect 17. How do earthquakes affect humans? Give at least two ways. Geography Significant events They can injure people. They can kill people. Earthquakes can damage people's homes and other possessions. People might have to leave their homes (evacuate). Roads might be damaged so people can't travel. People might be made homeless. Earthquakes can cause tsunamis so people might drown or their houses could flood. Businesses and schools may get destroyed so people can't go to work or Shops may be destroyed so it is hard to buy food and other things people Humans might have to spend a lot of money to rebuild homes or replace possessions. 18. Label the eight points of the compass. Geography Compass points north north-east north-west west east south-west south-east south



