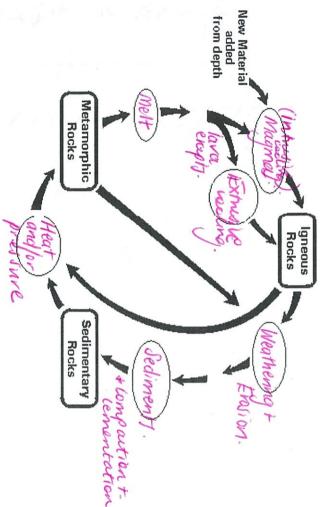
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Year 8 Geology Revision

Complete the Rock cycle below:

The Rock Cycle



2. What is it called when new material is pushed up from the Earth's mantle?

Uplift.

3. In what types of rocks are fossils formed?

Podinanta

4.
What
at is
둤
Mohs
scale
used
to
measure?

	7.	6.	S	
you agree? Explain your reasoning. Many Many	Extrusive — Capting Land on the Branch of tage to the following quartz it must be igneous.	6. What are the 2 types of igneous rock, and how do they form? Introduce for sufface was magnetic way.	5. What does it mean for a mineral to measure 1 on the Mohs scale?	Marring !!

second column. Match the words in the first column to the best available answer in the

2	1	6			,Ox	000	2	C	1	5	1	ti	1.1	1×	5	3	7	(C)	7
 monocline	anticline	syncline	folding	normal fault	reverse fault	pressure or tension	fault	joint	boundaries	plate	zone	subduction	seven	mid ocean ridges	convection	continental drift	The mantle	The crust	
18) What fault lines can be subjected to.	17) The number of major plates on the Earth's surface.	16) A fold which bends upward to form a "U" shape.	15) A fold which forms a step shape.	normal fault (13) this occurs when rocks move on either side of a joint.	reverse fault 12) The place where plates move apart under the ocean.	(14) The theory that explains how continents move together and apart.	10) These types of currents cause hot mama to move upward.		other side.	8) The type of fault where one side of a fault moves up and over the	another.	The name given to areas where one plate is pushed underneath	6) Where you will find most volcanoes.	5) The name given to lines of weakness in rocks.	4) The layer of the Earth underneath the crust.	3) The thin outer layer of the Earth.	2) A fold which bends downward to form a "∩" shape.	1) The type of fault where the Earth's crust in lengthened as plates are pulled apart.	

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- place to another. 3 The process that moves soil from one
- 5 A black flaky mineral 8 The hardest mineral.
- smaller particles 11 The process that breaks down rocks into
- 12 A mineral that is pinkish in colour
- this scale. 14 The hardness of minerals is measured on
- on a white tile is called the ... 15 The colour a mineral will leave behind 16 Minerals are substances that always form
- is found in soil. 17 The rotting animal and plant matter that
- other rocks that form layers 18 Rocks that are made up of particles of
- 19 This type of rain can cause chemical

DOWN

- minerals: quartz, mica and feldspar. 1 An igneous rock that is made up of the
- 2 The process where rocks "bend".
- 4 A "U" shaped fold.
- materials 6 A type of rock formed from molten earth
- to scratch 7 A mineral that is white in colour and hard
- 9 What rocks are made up of.
- and pressure changing other rocks 10 The type of rocks that formed by heat
- in rocks can allow the one side to "slip" past 12 This will form when a line of weakness
- 13 A river of ice.

Weathering

Weathering is a process by which rocks are broken down into smaller pieces. Wind, water, ice and temperature changes are some of the agents of weathering.

Mechanical Weathering is when rocks are broken down without a chemical change taking place in the rock. Agents of mechanical weathering include:

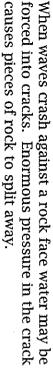
Wind

Wind moves small particles of sand, when they smash against rocks it gradually wears them down



Water

Water can carry grit and sand which wear away any surface it moves over.





When water freezes it expands if the water is inside of crack in the rock pieces of rock may split away.

Glaciers.

Glaciers are areas of moving ice. When the ice moves it wears down rocks.



<u>Plants.</u>

Roots of plants may grow into cracks in a rock, as they get larger they cause the rock to split.



Changes in Temperature.

Each day rocks heat up and cool down. Heating causes the rocks to expand and cooling causes them to contract. The difference in temperature between the outside and inside of the rock causes exfoliation, with pieces splitting away from the rock.



Chemical Weathering.

Chemical weathering involves chemical changes in the materials which form rocks.

Agents of chemical weathering include:

Air.

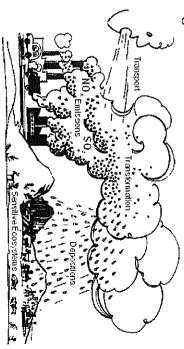
Oxygen in air reacts with many substances. This reaction causes the rocks to become softer and crumble.

Water.

Some minerals react with water. This usually makes them expand and the expansion causes pressure and the rock crumbles.

Acids.

Certain minerals dissolve in water. This causes the water to become acidic. Acid is especially important in the chemical weathering of limestone.



Sulfur dioxide is produced when fossil fuels are burnt. Acid rain is caused by sulfur dioxide reacting with water in the air Acid rain chemically weathers the rocks and buildings.

Humic acid.

Acid can enter water from decaying plant matter. The weak acid that is formed is called Humic Acid. This acid helps breakdown rocks.

* ANSWERS ON BACK PAGE *

Weathering

Changes in Temperature. Each day rocks up and down. Heating causes the rocks to and cooling causes them to The difference in temperature between the and inside of the rock causes, with pieces splitting away from the rock.	<u>Plants.</u> of plants may grow into in a rock, as they get they cause the rock to	Glaciers. Glaciers are areas of moving When thee moves it down rocks.	When water freezes it if the water is inside of crack in the rock pieces of rock may split away.	When crash against a rock face water may be forced into Enormous in the crack causes pieces of rock to away.	Water can carry and which wear away any it moves over.	Wind moves small particles of, when they smash against rocks it gradually them down.	Mechanical Weathering is when rocks are broken down without a change taking place in the rock. Agents of mechanical weathering include:	Weathering is a process by which are broken down into pieces. Wind, w, ice and temperature changes are some of the of of
cacia an b	Sulfur is produc burnt. Acid rain is caused by s in the air. Acid rain		NO Emissons	Transport Tra	Acids: Certain minerals is to become acidic is chemical weathering of is	Some react with v and the expansion c rock crumbles.	s the rocks to	Agents of chemical

Chamical weathering involves	Chemical Weathering.	
chano		

Transport Transformation Solutions Depositions Sulfur is produced when burnt. Acid rain is caused by sulfur dioxide reacting with water in the air. Acid rain weathers the rocks and "Transformation Transformation Depositions Depositions Depositions Depositions Acid rain is caused by sulfur dioxide reacting with water in the air. Acid rain	<u>Acids.</u> Certain minerals in water. This causes the water to become acidic is especially important in the	Water. Some react with water. This usually makes them and the expansion causes and the rock crumbles.	Agents of chemical include: <u>Air.</u> in air reacts with many substances. This reaction causes the rocks to become and	Chemical weathering involves changes in the materials which rocks.
---	--	--	--	--

acid helps _____ rocks.

____ that is formed is called ____

___ plant matter. The l ____ Acid.

Weathering

For each type of weathering listed below - choose as physical (P) or chemical(C)

- A path is worn into Uluru (Ayers rock) where the tourists walk up and down.
 P or C
- 2) Hydrochloric acid is poured onto Limestone dissolving the rock



3) The roots of a plant force their way into a rock breaking it apart.



iron oxide (rust).

4) Pure Iron in a rock combines with oxygen from the air to change the iron to

5) Water freezes in a rock and breaks the rock apart



6) A rock made up of minerals such as the salt halite is placed in water and the halite dissolves and is "washed" out of the rock.



7) A river of frozen ice (called a Glacier) moves across a section of rock and gouges holes in the rock



Porc

8) Repeated heating and cooling of a rock causes it to break apart.

9) A mineral in a rock called Calcite (CaCO₃) is dissolved out of a rock when

exposed to CO2 and water.



10) A rock under pressure exfoliates (breaks off) a flat sheet of stone.



PorC

GEOLOGY REVISION 2018

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		43. Name the creather contains the element from	T it
2		-	K
3	Wind, Pour, Mus	_	1
-	101.01	40. When broken rock gets moved away, what is this process called	1
		"99. What can be trapped in rocks that bend in the "∩" shape	
-		**S8. What can be trapped in rocks that bend in the "U" shape	. 8
1		37. Which type of rocks bend most easily	dis
	Morocuro.	36. When rocks fault and bend forming a step shape, what is it called	
	Britichise	35. When rocks bend and form a "\O" shape what is it called	
	dynine.	34. When rocks bend and form a "U" shape, what is it called	
	Told.	33. What is the name given to rocks bending:	1
	Normal.	32. What type of fault is caused by tension (rocks moving apart):	1
	Reverde:	31. What type of fault is caused by pressure (rocks pushing together)	
	Tankt.	30. A line of weakness between rock masses where movement occurs	
1	Hua (Mud Ka	29. An example of chemical weathering is	1
1	Rounding	28. An example of physical weathering is	1
	in/patherroy.	27. The process that leads to the breakdown of rocks:	100
	Marbie	26. Name two metamorphic rocks	64
	Sardyland	25. Name one sedimentary rock	N
3	Dumice + Ba	24. Name two igneous rocks	N
0	Metamorph	23. Rocks formed by other rocks being changed by heat or pressure	N
3	J. blamentons	22. Rocks formed by broken off pieces of old rocks cementing together	N
	Tarrecus	21. Rocks that are formed by the cooling of molten Earth materials	N
	lala	20. What is the name given to the molten rock that comes out of volcanoes	N
	magna.	19. What is molten rock under the Earths surface called?	_
	Mante.	18. Name the middle layer of the Earth	_
	(must	17. Name the outermost layer of the Earth	
	love.	16. Name the innermost layer of the Earth	_
	aners o	15. Which rock is formed if granite is heated and put under pressure	_
		14. What are the minerals contained in the rock Limestone	4
		13. What are the minerals that are contained in the rock Sandstone	
-	4	12. What are the minerals that are contained in the rock Dolerite	-
6	Quart Elder	11. What are the minerals that are contained in the rock Granite	_
	Minerall.	10. What are made rocks of	_
	(9
	Black.	8. What colour is mica? (Www.)	00
	Pinkigh.		7
	Take	6. The softest mineral	6
	Mamond		S
	Hardress.		4
	Shoak.	3. If you rub a mineral on a piece of unglazed porcelain, what is left behind	w
	Charage	2. The name given to the way a mineral splits	2
	Rocks.	1. What is made up of several minerals mixed up together?	_

