*Stat-w	Slidet	18	•	
WEATHERING.		Name	Answer	Key
·				

	1. Define Weathering - the process by rocks r	the second of th			
A	break down and thene	rear or on the Eath's Surface			
	Dreak down and change? 2. What is Mechanical Weathering? Drockis where roce and change into Small-pieces of Sed	ICS and minerals break down			
Chuston .	What are the 3 feetow that affect well-2 makeds a	ment.			
him	3. What are the 2 factors that affect rocks?	MOGNACODATION PRESSURE & HENRIANDE			
ar		4. Frost (or Ice) Wedging-			
1					
A STATE OF THE STA					
Shakes		5. Exfoliation -			
Charles					
Sur					
	The second secon				
		6. Root Action-			
V					
	Plant roots split rock				
		7. Animal Activity-			
ĺ					
	3				
	Organisms in the soil				
l	The same of the sa				
	and the second of the second o				
	8. What is Chemical Weathering? <u>Drocess</u> by unice their composition as a fesure of Ja crem	rocks and miterals change			
	9. Define Hydrolysis - reach of the w	**			
	•				
۸ -	10. Define Oxidation- a chemical reachin w/ Oz (gas)				
carriers formation of the carbonic Acid formed-released Coz reacts with maisting in atmosphere					
*	to sollivers!				
:	12. What are the 2 gases that form Acid Precipitation?) (NO2 / 1			
	13. Where do these 2 gases come from?	V			
	- · · · · · · · · · · · · · · · · · · ·	A transfer of the state of the			

The process by which rocks and minera	als break down into small	er pieces is (1) <u>Physical -> reananial</u>			
· · · · · · · · · · · · · · · · · · ·		lay a significant role in this type of weathering			
are (2) Pressure and (3)	-tmerana	To some extent, the (4) and			
of rocks determines the effects that ch	nemical weathering will h	ave on them. (5) Watcomis an			
		many kinds of minerals. An atmospheric gas			
· · · · · · · · · · · · · · · · · · ·		<u>ar ban dia ku ở c</u> , which is produced by			
living organisms. When this gas comb	ines with water, it produc	ces a weak acid called (7) <u>Carbonic</u>			
aud . Another agent of chemical	weathering is (8) <u>acid</u>	(pecipital n)			
emission of sulfur dioxide and nitroge	n oxides.	(precipitation)			
	hemical Weathering and	a M beside those examples that represent			
Mechanical Weathering.		b A			
1) a limestone cave forms in Guatemala					
\mathcal{M}_2) a birch tree grows out of a crack in the bedrock \mathcal{M}_6) a rabbit burrows into rock					
M 3) rocks break apart on Stone	Mountain Georgia dome	7) exhaust mixes with rainwater			
4) markings disappear on the C					
	•	•			
9. What 4 factors affects the rate of weathering? Temperature Climate Pressure and Surface area					
#\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	and				
10. Tropical New Guinea experiences	sa <u>greater</u> rat	te of mechanical and chemical weathering than			
	vs that Nashville has\	Orw temperatures and 1855			
rainfall as compared to New Guinea.					
	-	It can take 2000 years to weather 1			
4 cm	2 cm 2	cm of limestone. The volume of the			
		rock in the example remains			
		constant. The original surface area			
		of the rock is 96 cm ² . When this			
		block is broken up into more pieces,			
		the surface area <u>in Creases</u> .			
		First it is 96 cm ² , then when it is			
Surface area	Surface area of one cube	broken into 8 pieces, the total			
		surface area changes to 192 cm².			
= (4 cm x 4 cm x 6 faces) = 96 cm ²	= (2 cm x 2 cm) x 6 faces = 24 Total surface area	Thus the greater the total surface			
	= 24 cm ² x 8 cubes = 192 cm ²	area, the Mac			

weathering occurs.