Rock Cycle & Rock Types - **Honors**

Name:

Use each of the terms below just once to complete the following statements.

	trusive	Magma Cementation	Lithification Chemical weathering	Physical weathering Clastic sediments	Sedimentary rock Sorted deposits			
_	neous rock va	Intrusive	Sediment	**	Deposition Deposits			
				•				
			is called					
2.	A(n) is formed from the crystallization of magma.							
3.	Magma that flows out onto Earth's surface is called							
4.	Fine-grained igneous rocks that cool quickly on Earth's surface are called igneous r							
5.	Coarse-grained rocks that cool slowly beneath earth's surface are called igneous roc							
6.		(consists of solid material that	has been deposited on Eartl	n's surface by wind, water			
	ice, gravity, or chemical precipitation.							
7.	Glaciers and la	andslides create	in	which sediments of differe	nt sizes are mixed togethe			
8.	During		, the minerals in	n a rock are dissolved or oth	nerwise chemically change			
9.	Process by which mineral growth binds sediment grains together into solid rock is							
10.	Weathering produces, which are rock and mineral fragments.							
11.	When sediments become cemented together, they form							
12.	As a result of		, sediments are laid d	own on the ground or on the	e bottom of bodies of water			
13.	. The physical and chemical process called transforms sediments into sedimentary rocks							
14.	During		, minerals remain chemica	lly unchanged, and rock fra	gments simply break off of			
	the solid rock	along fractures or gra	ain boundaries.					
15.	Sediments tend to form when transported by water and wind.							
	ch statement ent true.	below, write TRU	E or FALSE. If false, wi	ite the correct word or _l	phrase in to make the			
16.	. Magma is often a slushy mix of molten rock, gases, and mineral crystals							
17.	The elements found in magma are quite different from those found in Earth's crust.							
18.	Silica is the most abundant compound found in magma.							
19.	Magmas are classified as intrusive or extrusive.							
20.	Heat in the up	per mantle and lower	r crust may come, in part, from	m the decay of radioactive e	elements.			
21.	Lithification b	egins with erosion.						
			are commonly found within p	ore spaces in sedimentary re	ocks			
		_	ecreases with depth.					

Use each of the terms in the box above the passage just once to complete the passages.

Elements	Fractional crystallization	Reverse
Magma	Melting points	Partial melting

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	 · · 	_	e time. The process whereby some	
-		remain solid is called(25) A		
		ging its composition. When the n		
(27) order of partial m	elting. The process wherein	different minerals form at differen	nt temperatures is called(28) As	
each group of minerals cry	stallizes, it removes elements	from the remaining(29) inst	tead of adding new elements.	
24		27.		
25.				
26.				
Cross-bedding	Fossils	Graded bedding	Lithification	
Ripple marks	Sand dunes	Transport	Bedding	
			d by minerals and turned into rock.	
30		34		
31		35		
32		36		
33		37		
Answer the following q	uestions:			
38. How are igneous rocks	formed?			
39. What happens to igner	ous rocks that undergo weathe	ring and erosion?		
40. How do sediments bec	ome sedimentary rock?			
41. What forces cause sed	imentary rocks to be transforn	ned into metamorphic rocks?		
42. How can metamorphic	rocks be transformed into igr	neous rock?		

43. How can sandstone be transformed into sediment without becoming metamorphic or igneous rock first?