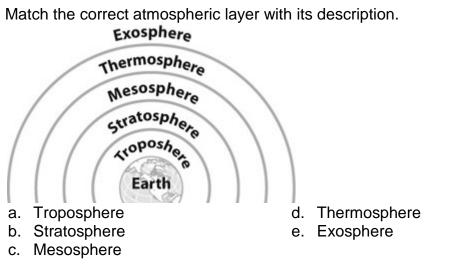
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The Changing Earth – Unit 1 Lesson 7 Test 1

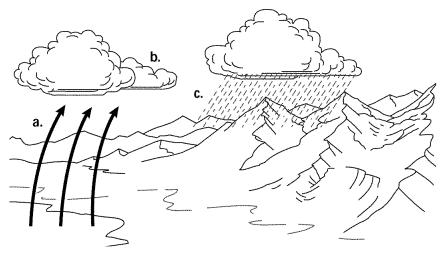
The Changing Earth

Matching



- 1. also contains the ionosphere and where auroras occur
- _____ 2. contains the ozone layer
- 3. considered a transitional region where the atmosphere merges into outer space
- _____ 4. where weather occurs
 - 5. coldest layer

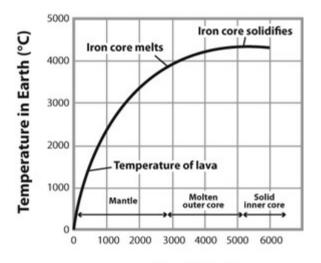
Match the name of the process shown in each part of the water cycle diagram on the next page.



- a. evaporation
- b. condensation, cloud formation
- c. precipitation
- ____ 6. Step 1
- ____ 7. Step 2
- _____ 8. Step 3

Multiple Choice

Identify the choice that best completes the statement or answers the question.



Depth (km) Use the graph to answer the questions.

9. According to the graph, what is the temperature of lava?

a.	1000°C	С.	1250°C
b.	250°C	d.	500°C

- 10. According to the graph, what is the range in depth when iron core melts and solidifies?
 - a. 3900km-4300km
 - b. 3000km-5000km

- c. 4000km-4500km
 - d. 2900km-5100km

Depth into Earth From Original Depth	Temperature Increase From Original Temperature
100m	3°C
200m	6°C
300m	9°C

Use the table to answer the questions.

- 11. After 450m the temperature will have increased by how much?
 - a. 12.5°C c. 13.5°C b. 135°C d. 10.5°C
- 12. Which statement best summarizes the table?
 - a. For every 100m increased in depth, c. Four every 3°C increase, the depth the temperature triples. is doubled.
 - b. For every 100m increased in depth, d. For every 3°C increase, the depth the temperature increases 3°C. is tripled.

13. Rocks are formed when magma _

- a. erodes
- b. undergoes radioactive decay
- Factors that affect a rock's melting point include _____.
 - a. pressure and water content
 - b. value as a gem
- 15. Which is NOT an agent of chemical weathering?
 - a. water c. oxygen
 - b. temperature d. carbon dioxide
- 16. Which of the following has the potential for the most erosion?
 - a. water flowing across a flatland
 - b. wind blowing materials in the air, against the force of gravity
 - c. wind blowing materials down a slope
 - d. water flowing down a steep slope
 - 17. Which of the following characteristics of water can be responsible for mechanical weathering?
 - a. Water flows downstream under gravity.
 - b. Water expands when it freezes.
 - c. Water combines with atmospheric gases to form acid rain.
 - d. Water reacts with and can dissolve many kinds of minerals.

- c. cools and crystallizes
- d. weathers
- - c. rarity
 - d. usefulness as a building material

- 18. The existence of coal beds in Antarctica indicates that the continent once had .
 - a. been part of Africa
 - b. a temperate, rainy climate
- c. a cold, dry climate
- d. been farther from the equator
- 19. Continental-continental plate collisions produce _____. a. island arcs
 - c. deep-sea trenches
 - d. very tall mountain ranges
- 20. Crust is neither destroyed nor formed along which of the following boundaries?
 - a. convergent
 - b. divergent

b. rift valleys

- c. transform d. magnetic
- 21. The driving forces of tectonic plates are related to convection currents in Earth's _____.
 - a. crust

- c. inner core
- d. outer core
- 22. Which of the following is a component of the atmosphere which changes very little?
 - a. water vapor
 - b. nitrogen

b. mantle

- c. carbon dioxide
- d. ozone



Use the picture to answer the questions.

- 23. What process is being modeled in the picture?
 - a. conduction c. radiation
 - b. convection d. emission
- 24. How does this process appear in the atmosphere?
 - a. The transferring of thermal energy c. The transferring of thermal energy from Earth to the Sun. from the Sun to Earth.
 - b. The blocking of light energy by Earth.
- 25. Earth's atmosphere contains more _____ than any other substance.
 - a. hydrogen and nitrogen
 - b. helium and oxygen

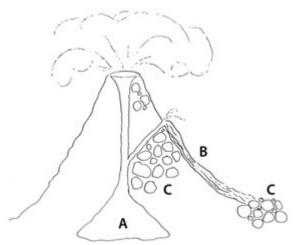
- d. The absorption of thermal energy by the ozone layer.
- - c. nitrogen and oxygen
 - d. carbon and nitrogen
- 26. What is the constant movement of water between the atmosphere and Earth's surface?
 - a. precipitation cycle

d. atmosphere cycle

b. water cycle

c. cloud cycle

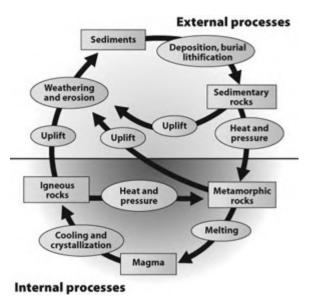
Short Answer



Use the diagram to answer the questions.

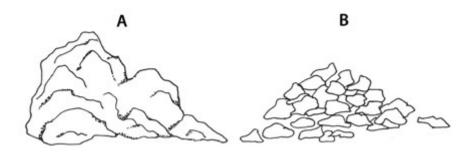
27. What is the difference between the substance identified as A and the substance identified as B?

28. What might happen to the rock cycle if the forces that cause weathering were absent on Earth?



Use the rock cycle diagram to answer question 29.

- 29. Why is the diagram of the rock cycle not just a simple circle?
- 30. Which rock group is susceptible to a faster rate of weathering? Explain.



The Changing Earth Answer Section

MATCHING

1.	ANS: NAT:	_	PTS: STA:	1 ABC.17
2.	ANS:		PTS:	1
	NAT:	D.3	STA:	ABC.17
3.	ANS:	Е	PTS:	1
	NAT:	D.3	STA:	ABC.17
4.	ANS:	А	PTS:	1
	NAT:	D.3	STA:	ABC.17
5.	ANS:	С	PTS:	1
	NAT:	D.3	STA:	ABC.17
6.	ANS:	A	PTS:	1
	NAT:	UCP2 A1	B2 B5	5 D1
7.	ANS:	В	PTS:	1
	NAT:	UCP2 A1	B2 B5	5 D1
8.	ANS:	C	PTS:	1
	NAT:	UCP2 A1	B2 B5	5 D1

MULTIPLE CHOICE

9.	ANS:	С	PTS:	1
	NAT:	B.2	STA:	ES.1
10.	ANS:	D	PTS:	1
	NAT:	UCP.3	STA:	ES.1
11.	ANS:		PTS:	
	NAT:	UCP.3	STA:	ES.1
12.	ANS:	В	PTS:	1
	NAT:	UCP.3	STA:	ES.1
13.	ANS:	С	PTS:	1
	NAT:	UCP1 B2	D1	
14.	ANS:		PTS:	
	NAT:	UCP3 D1	STA:	11.1
15.	ANS:			
	NAT:	F.4	STA:	ES.16
16.	ANS:	D	PTS:	1
	NAT:	UCP2 B3	B4 D1	D2
17.	ANS:	В	PTS:	1
	NAT:	UCP3 D1	D2	
18.	ANS:	В	PTS:	1

DIF:	Bloom's Level 4
DIF:	Bloom's Level 4
DIF:	Bloom's Level 4
DIF:	Bloom's Level 3
DIF: STA: DIF:	Bloom's Level 2 11.1 11.4 Bloom's Level 2
DIF:	Bloom's Level 2
DIF: STA: DIF: STA:	Bloom's Level 2 16.5 Bloom's Level 3 16.1 16.2 16.3
DIF:	Bloom's Level 2

DIF:	Bloom's Level 4
DIF:	Bloom's Level 4
DIF: STA: DIF: STA: DIF: STA:	Bloom's Level 2 12.1 12.3 13.1 Bloom's Level 2 12.1 12.3 13.1 Bloom's Level 2 12.1 12.3 13.1

	NAT:	UCP4 D3	STA:	19.3		
19.	ANS:	D	PTS:	1	DIF:	Bloom's Level 2
	NAT:	UCP3 D1	D3			
20.	ANS:	С	PTS:	1	DIF:	Bloom's Level 2
	NAT:	UCP1 D3	STA:	19.1 19.3		
21.	ANS:	В	PTS:	1	DIF:	Bloom's Level 2
	NAT:	UCP2 A1	B5		STA:	19.2
22.	ANS:	В	PTS:	1	DIF:	Bloom's Level 1
	NAT:	D.3	STA:	ABC.17.4		
23.	ANS:	С	PTS:	1	DIF:	Bloom's level 2
	NAT:	B.1	STA:	ES.1		
24.	ANS:	С	PTS:	1	DIF:	Bloom's Level 2
	NAT:	B.1	STA:	ES.1		
25.	ANS:	С	PTS:	1	DIF:	Bloom's Level 1
	NAT:	UCP1 A1	B4		STA:	13.1
26.	ANS:	В	PTS:	1	DIF:	Bloom's Level 1
	NAT:	UCP2 A1	B2 B5	5 D1	STA:	12.1 12.3 13.1

SHORT ANSWER

27. ANS:

The substance identified as A is magma which is molten rock beneath Earth's surface while the substance identified as B is lava which is magma that flows out onto Earth's surface. As the magma rises to Earth's surface, some of its gases escape into the atmosphere creating a different chemical composition and changing it to lava.

PTS: 1	DIF:	Bloom's Level 4	NAT: B.2
STA: ES.9			

28. ANS:

If weathering did not occur, sedimentary rock would not form. Its absence would likely affect the formation of igneous and metamorphic rock as well.

PTS: 1 DIF:	Bloom's Level 5	NAT: UCP2 A2 D1
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29. ANS:

The diagram is not just a simple circle because there are many different ways that one type of rock can be transformed into another type of rock; all possibilities must be shown.

PTS: 1 DIF: Bloom's Level 6 NAT: D.2 STA: ES.11.1

30. ANS:

Rock group B is more susceptible to a faster rate of weathering because there is more surface area in the broken down rocks than in the solid rock thus having more exposed rock which can be weathered.

PTS: 1 DIF:	Bloom's Level 6	NAT: F.4
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STA: ES.16