

Name:

TA:

Date:

Earth Spheres and Interconnectedness Worksheet

Find important words for the unit in this crossword puzzle!

Locate the words from the word bank in the puzzle. Terms that are two words are together in the puzzle, unless the second word is in italics. Words in italics are not in the puzzle.

There's one word that is found in the puzzle several times. Can you the word and how many of them there are?

F R N B D N I W A T E R V A P O R D F E K L O
I O S R D A E S E R E E M R O C K V H V S H R
R C U W E T S E R O F N I A R B R N K A A I M
E K O E L H R R B C T E V R E K O F C P H O I
R S E A C R T O J K S W T I C N C R O O U N N
E E N T Y G O A C J K A N O R A K E R R M O E
H D G H C L G C E K C B R E R O C K C A I I R
P I I E R G E W K W O L N O U R N Q A T D T A
S M M R E E R U T A R E P M E T R M A I I A L
O E I I T W E A F K W R O N E N K S E O T T O
M N N N A K C O R A U E K R F T N C R N Y I R
T T E G W H S O B D E S E R T E A O O H T P E
A A R L W S A L I K C O R Y D D C M S R Y I I
R R A V I P E R E F J U E N M K S A I T J C C
O Y B L P O T C I H P R O M A T E M O L I E A
C H A B I T A T D E L C L A R U T A N K C R L
K C O R T E A I R P R E S S U R E K C O R P G

Word Bank:

atmosphere

condensation

temperature

environment

rainforest

natural *resource*

rock

metamorphic *rock*

water vapor

precipitation

wind

habitat

glacier

weathering

mineral

nonrenewable *resource*

water cycle

weather

air pressure

desert

fuel

erosion

igneous *rock*

evaporation

humidity

climate

wetland

fossil *fuel*

renewable *resource*

sedimentary *rock*

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1) Define the following terms.

a. Biosphere

b. Lithosphere

c. Hydrosphere

d. Atmosphere

2) How do material and energy get moved from sphere to sphere? Explain a few of the processes.

3) A) Describe the Ozone layer and the Karman line.

B) What Earth sphere do they belong to, and what layer is each term in?

C) What layer can most weather be found in?

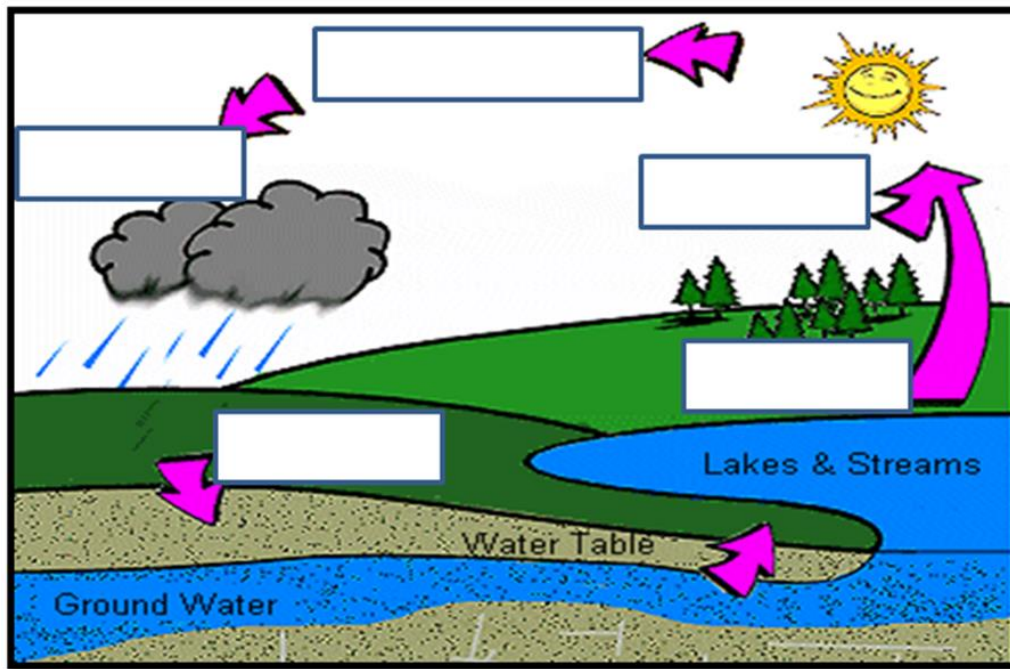
Name:

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4) a) Place the following words on the image of the water cycle:

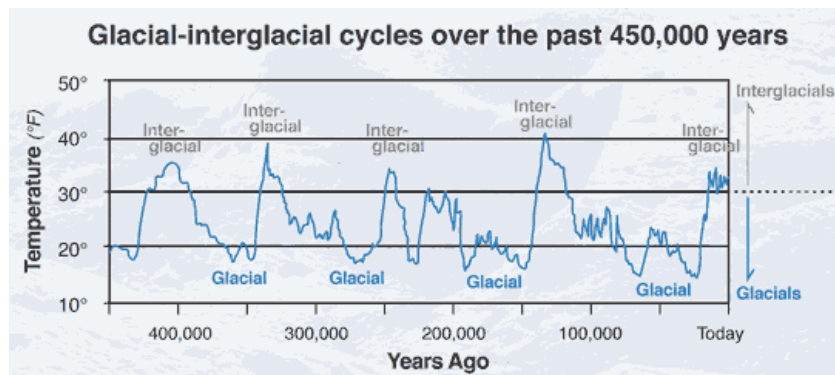
Precipitation	Condensation	Transpiration	Collection	Evaporation
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b) The water cycle is constantly losing energy to other sphere as it moves water around. How does the water cycle continue without stopping?

c) The cryosphere is not on the diagram, but is a part of the hydrosphere. What is the cryosphere?

Did you know? We are currently in the Quaternary Ice Age. Ice ages go through alternating periods of glacial and interglacial periods, where the temperature increases and decreases.



d) Predict what will happen to the water cycle if the interglacial period ends.

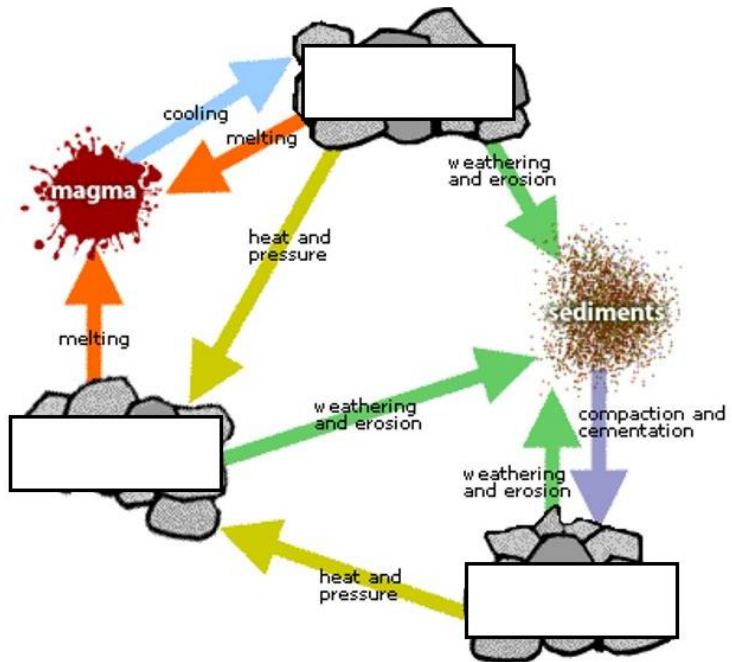
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5) A) Label the diagram with each rock type.

B) Predict what would happen if Earth's lithosphere stopped moving, preventing volcanoes from forming.



C) What would be the best place for energy and matter from the lithosphere to be transferred into the biosphere?

6) State what is biotic or abiotic for the following sentences.

Biotic	Abiotic	Sentence
		A wolf hunting for its prey.
		The rocks that act as the home for fish and snakes.
		The bacteria in the soil to recycle nitrogen compounds.
		A Lillypad up taking water from a lake.
		The sun providing trees with light for photosynthesis.

7) What is the difference between the terms "environment" and "ecosystem"?