Name _____ Date _____ Period _____

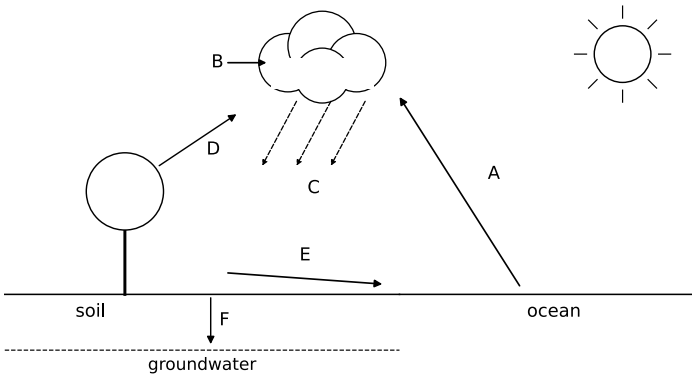
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The Water Cycle

Biology

Answer in complete sentences. Show your work for calculations.

1. The model shows the water cycle. Name the process shown by arrows A, B, D, and F.

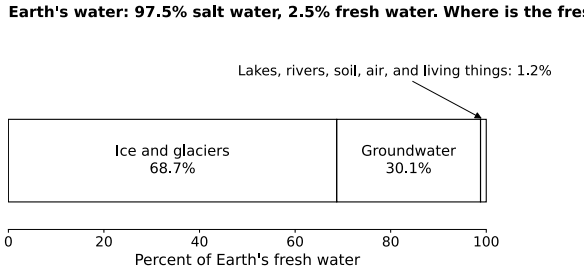


Arrow	Process
A	
B	
D	
F	

2. Evaporation and condensation are opposite processes. Which one absorbs energy, which one releases energy, and what is the source of the energy for evaporation?

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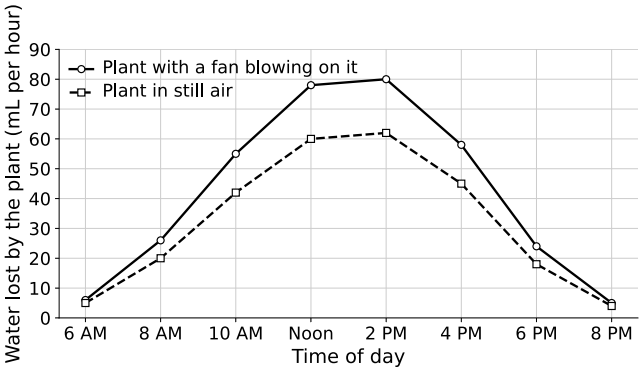
3. Use the graph of Earth's fresh water.



(a) What percent of Earth's fresh water is in ice and glaciers?

(b) Earth has about 1.39×10^9 km^3 of water, and 2.5% of it is fresh. How much is groundwater?

4. A student tests whether moving air changes how fast a plant loses water.



(a) How much more water per hour does the plant with the fan lose at noon?

(b) Write a claim about moving air and transpiration. Support it with data.

5. A town plans to pave a large field to make a parking lot. Predict how this will change runoff, flooding, and groundwater. Use the data as evidence, and suggest one way to reduce the effect.

	Forest	**City (mostly paved)**
Runoff	10% of rain	55% of rain
Deep infiltration	25% of rain	5% of rain

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