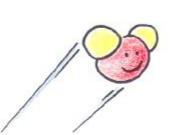
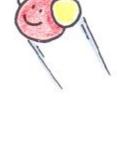
When evaporation of water occurs, the faster-moving (more energetic) water molecules escape the liquid and become molecules in the air. The average kinetic energy of molecules remaining in the liquid is lowered. The water is cooled.

Normally the air that receives the escaping molecules is

- a) warmed.
- b) cooled.
- c) neither warmed nor cooled.





CONCEPTUAL Physics

Next-Time Question

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Answer: b

Molecules that escape the liquid and enter the gaseous phase are considerably slowed in overcoming hydrogen bonding at the water surface—reducing their initially high kinetic energy. The air is therefore cooled as it collects these slower moving gaseous particles.

Hydrogen bonding—a force to be reckoned with.





