

Name: _____

Score: _____

7 Multiple choice questions

Definition

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When liquid flows through narrow spaces without external forces, such as gravity.

- ☐ Capillary action
- ☐ Water cohesion
- ☐ Rewetting cell walls
- ☐ Cohesion in xylem

Definition

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Adhesion helping xylem vessels refill with water when air-filled, such as in deciduous trees during winter

- ☐ Rewetting cell walls
- ☐ Xylem vessel refilling
- ☐ Floating objects on water
- ☐ Cohesion in xylem

Definition

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The property of the surface of a liquid that allows it to resist an external force, due to the cohesive nature of its molecules

- ☐ Capillary action
- ☐ Surface tension
- ☐ Water cohesion
- ☐ Porous soil

Definition

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Use of water surfaces as a living environment

- ☐ Conduction of water in xylem
- ☐ Water surfaces as habitat
- ☐ Adhesion to solid surfaces
- ☐ Breaking hydrogen bonds

Definition

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Soil with small spaces between particles that water can be attracted to and rise up from underground sources

- ☐ Xylem vessel refilling
- ☐ Porous soil
- ☐ Capillary action
- ☐ Surface tension

Term

Floating objects on water

- ☐ Ability of objects like steel pins to float on water's surface due to surface tension and cohesion between water molecules
- ☐ Adhesion helping xylem vessels refill with water when air-filled, such as in deciduous trees during winter
- ☐ Soil with small spaces between particles that water can be attracted to and rise up from underground sources
- ☐ Capillary action due to adhesion helping to moisten and rewet cell walls in plants

Definition

A raft spider is able to hunt on the surface of the water because of their water-repelling hairs and lightweight which keeps them from breaking surface tension on the water.

- ☐ Floating objects on water
- ☐ Explain why a raft spider is able to hunt on the surface of water?
- ☐ Adhesion to solid surfaces
- ☐ Xylem vessel refilling

6 Matching questions

- Breaking hydrogen bonds
- Water cohesion
- Adhesion to solid surfaces
- Cohesion in xylem
- Rewetting cell walls
- Conduction of water in xylem

- A.** Water molecules like sticking together, requiring energy to break them.
- B.** Transport of water through the xylem in plants
- C.** Requiring energy to break the hydrogen bonds in water
- D.** Hydrogen bonds between water and solid surfaces causing adhesion and movement
- E.** Capillary action due to adhesion helping to moisten and rewet cell walls in plants
- F.** Hydrogen bonds in water in xylem making it cohesive and able to withstand large tensions