

## 7 Multiple choice questions

Definition

1 of 13

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

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

Definition

2 of 13

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

3 of 13

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

4 of 13

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

5 of 13

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

7 of 13

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

<input type="checkbox"/>	Breaking hydrogen bonds	<b>A.</b> Water molecules like sticking together, requiring energy to break them.
<input type="checkbox"/>	Water cohesion	<b>B.</b> Transport of water through the xylem in plants
<input type="checkbox"/>	Adhesion to solid surfaces	<b>C.</b> Requiring energy to break the hydrogen bonds in water
<input type="checkbox"/>	Cohesion in xylem	<b>D.</b> Hydrogen bonds between water and solid surfaces causing adhesion and movement
<input type="checkbox"/>	Rewetting cell walls	<b>E.</b> Capillary action due to adhesion helping to moisten and rewet cell walls in plants
<input type="checkbox"/>	Conduction of water in xylem	<b>F.</b> Hydrogen bonds in water in xylem making it cohesive and able to withstand large tensions