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Crash Course Biology #42: Plant Anatomy & Physiology: Plants Are Hardcore

Name: _____ Date: _____

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1. The plants known as *Barbarea* have hairy roots that ooze rock-dissolving acids, allowing them to _____ their way into Brazilian mountaintops.
2. The specialized plant veins that transport water are called _____.
3. The type of transport that moves molecules passively from an area of high concentration to low concentration is called _____.
4. The plant structure responsible for absorbing water from the soil is the _____.
5. The movement of water from plant leaves into the atmosphere is called _____.
6. Water molecules sticking to each other is a property known as _____, while their attraction to other surfaces is called _____.
7. The small openings in leaves that allow gas exchange and water loss are called _____.
8. Plants rely on a vascular system composed of two main transport tissues: _____, which carries water, and _____, which carries sugars.
9. The process by which plants create their own food using sunlight, carbon dioxide, and water is called _____.
10. A plant's response to environmental factors is controlled by signaling molecules called _____.
11. Some plants defend themselves from herbivores by producing chemical compounds that are _____ or taste bad.
12. When a plant warns its neighbors of danger by releasing airborne chemicals, it is engaging in _____ communication.
13. The hormone responsible for triggering flowering in angiosperms is called _____.
14. The reproductive structures of angiosperms, which contain pollen and eggs, are known as _____.
15. Some plants can reproduce without fertilization, creating genetic clones in a process known as _____ reproduction.

Crash Course Biology #42: Plant Anatomy & Physiology: Plants Are Hardcore - KEY

1. The plants known as *Barbarea* have hairy roots that ooze rock-dissolving acids, allowing them to **chisel** their way into Brazilian mountaintops.
2. The specialized plant veins that transport water are called **xylem**.
3. The type of transport that moves molecules passively from an area of high concentration to low concentration is called **diffusion**.
4. The plant structure responsible for absorbing water from the soil is the **root**.
5. The movement of water from plant leaves into the atmosphere is called **transpiration**.
6. Water molecules sticking to each other is a property known as **cohesion**, while their attraction to other surfaces is called **adhesion**.
7. The small openings in leaves that allow gas exchange and water loss are called **stomata**.
8. Plants rely on a vascular system composed of two main transport tissues: **xylem**, which carries water, and **phloem**, which carries sugars.
9. The process by which plants create their own food using sunlight, carbon dioxide, and water is called **photosynthesis**.
10. A plant's response to environmental factors is controlled by signaling molecules called **hormones**.
11. Some plants defend themselves from herbivores by producing chemical compounds that are **toxic** or taste bad.
12. When a plant warns its neighbors of danger by releasing airborne chemicals, it is engaging in **chemical** communication.
13. The hormone responsible for triggering flowering in angiosperms is called **florigen**.
14. The reproductive structures of angiosperms, which contain pollen and eggs, are known as **flowers**.
15. Some plants can reproduce without fertilization, creating genetic clones in a process known as **asexual** reproduction.

15 Questions

Answer Key Included

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