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Crash Course BIOLOGY (2012 SERIES) 40 Episode Series Bundle

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Crash Course Biology (2012) #37: Vascular Plants

Name: _____ Date: _____

You can access the video here → <https://youtu.be/9a0TMXMTMEsi-4U3hymUz26ka3Q>

1. The defining trait of vascular plants is _____, tissues that move water and food.
2. Vascular plants are organized into three main organs: the root, the stem, and the _____.
3. _____, a thin layer of cells, forms the outer protective layer of many non-woody parts.
4. A waxy _____ on leaves and stems helps prevent water loss.
5. Hair-like _____ on roots increase surface area for absorption.
6. The most abundant, flexible plant cells are _____ and occur in many tissues.
7. Water and minerals move upward through _____, driven in part by negative pressure.
8. The continuous evaporation of water from leaves is called _____.
9. Young shoots are supported by elongated, thick-walled _____ cells.
10. _____ cells are lignin-rich and often dead at maturity, forming strong support in wood.
11. Stems house specialized growth-producing cells called _____ which create new tissues.
12. Inside the leaf, the photosynthetic ground tissue layer is the _____.
13. Tiny openings called _____ allow CO₂ in and water vapor out.
14. Each stoma is controlled by a pair of _____ that open and close it.
15. Sugars exit leaves and travel through _____ via sieve-tube elements and sap.

Crash Course Biology (2012) #37: Vascular Plants - KEY

1. The defining trait of vascular plants is **conductive tissues**, tissues that move water and food.
2. Vascular plants are organized into three main organs: the **root**, the **stem**, and the **leaf**.
3. **Epidermis**, a thin layer of cells, forms the outer protective layer of many non-woody parts.
4. A waxy **cuticle** on leaves and stems helps prevent water loss.
5. Hair-like **root hairs** on roots increase surface area for absorption.
6. The most abundant, flexible plant cells are **parenchyma** and occur in many tissues.
7. Water and minerals move upward through **xylem**, driven in part by negative pressure.
8. The continuous evaporation of water from leaves is called **evapotranspiration**.
9. Young shoots are supported by elongated, thick-walled **collenchyma** cells.
10. **Sclerenchyma** cells are lignin-rich and often dead at maturity, forming strong support in wood.
11. Stems house specialized growth-producing cells called **meristems**, which create new tissues.
12. Inside the leaf, the photosynthetic ground tissue layer is the **mesophyll**.
13. Tiny openings called **stomata** allow CO₂ in and water vapor out.
14. Each stoma is controlled by a pair of **guard cells** that open and close it.
15. Sugars exit leaves and travel through **phloem** via sieve-tube elements and sap.

15 Questions

Answer Key Included

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★★★★★ Extremely satisfied "I like the versatility of this. For my more independent students, they can do this for extra credit or sub work. For my classes who need more help, we watch as a class and pause and discuss along the way. Great to help with vocabulary due to videos, and writing."

★★★★★ Extremely satisfied "This is a great resource to challenge my students as well as provide an outline for them as they go. It acts as guided notes to check their understanding and help guide them through the videos."

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