Plant Tissues Quiz

1. Which type of plant cell secretes the waxy substance that makes up the cuticle?

1. Epidermal cells
2. Stomata
3. Guard Cells
4. All of the above

2. Which large cells that lack chloroplasts make up most of the epidermis?

1. Stomata
2. Guard cells
3. Pavement cells
4. Sclerenchyma cells

3. What role do stomata play?

1. They are cells that guard pores
2. They are pores that control the release of water vapor
3. They are pores that control oxygen and carbon dioxide exchange
4. A and B
5. B and C
6. All of the above

4. Collenchyma tissues are alive at maturity. True or False?

1. True
2. False

5. Which type of tissue is generally dead at maturity?

1. Xylem
2. Schlerenchyma
3. Parenchyma
4. A and B
5. All of the above

6. What is a role of phloem vascular tissue?

1. To carry water from the roots to the whole plant
2. To carry photosynthetic products throughout the plant
3. To carry waste products away for disposal
4. A and B
5. B and C

7. Ground tissue makes up the interior of a plant and carries out basic metabolic functions. True or False?

1. True
2. False

8. Guard cells take in or let out water in order to open and close stomata. True or False?

1. True
2. False

9. If you dip only the base of this celery stalk in water containing blue dye, what do you think will happen after several hours?

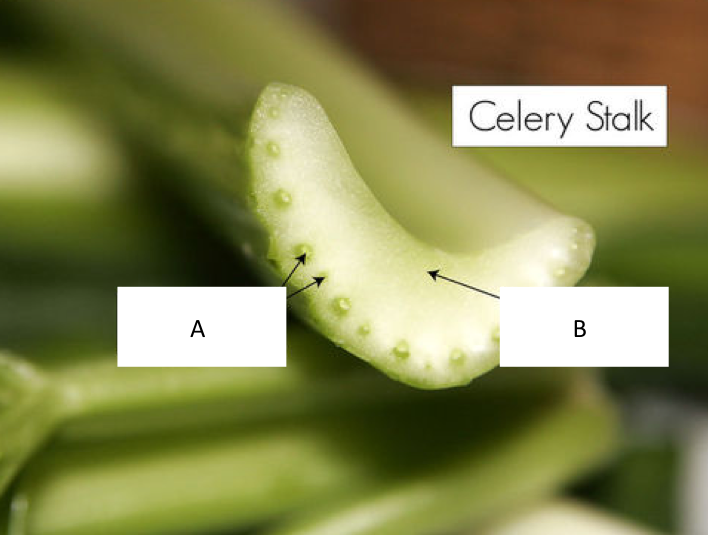


Figure 1 A cross section of the stalk of a celery plant.

1. Nothing will change about the celery stalk
2. Blue dye will be visible in the vascular tissue at the base of the stalk
3. Blue dye will be visible at the base and the top of the celery stalk
4. B and C

10. To which tissues of the celery plant are A and B pointing?

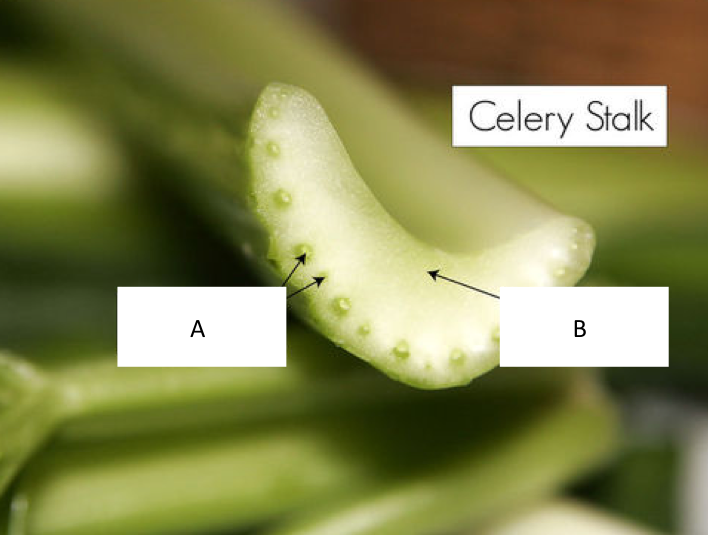


Figure 2 A cross section of the stalk of a celery plant.

1. A: Stomata B: Ground tissue
2. A: Bundles of xylem and phloem B: Ground tissue
3. A: Bundles of xylem and phloem B: Sclerenchyma tissue
4. None of the above

**Resources**

Figs 1-2: CK-12

<http://www.ck12.org/concept/Plant-Tissues/?ref=%2Fconcept%2FPlant-Tissues%2F#artifact_title>