

3. The structure of any given cell provides insight into the structure or function of the entire plant.

1. Answers will vary. Cells are the basic units for organization and structure in an organism, and the sum total of the cells forms the shape of the organism.

2. Every plant is made up of millions of cells, and damage to one would not be significant to the overall structure.

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1. Do you think the structure of the onion cells determines the overall size and shape of the plant? Explain your answer.
2. If one cell of the onion were changed or damaged, how might it affect the overall structure or function of the plant?
3. If one cell is not important to the survival of the plant, why is it still worthwhile to study plants at the cellular level?