

Name \_\_\_\_\_

## The Growth Spurt: Understanding How Vascular Plants Thrive

### Short Answer Key

1. Photosynthesis is the process by which plants use sunlight, water, and carbon dioxide to produce glucose and oxygen, providing carbohydrates for growth.
2. Water availability influences plant growth in vascular plants by affecting transpiration rates, nutrient uptake, and turgor pressure in plant cells.
3. Soil fertility is significant for vascular plant growth and development as it provides essential nutrients such as nitrogen, phosphorus, and potassium necessary for plant nutrition and health.
4. Environmental factors such as temperature and humidity can affect plant growth by influencing metabolic processes, transpiration rates, and physiological responses in vascular plants.
5. Human activities such as deforestation, habitat destruction, pollution, and climate change can impact vascular plant growth either positively or negatively, depending on management practices and environmental stewardship efforts.

