Al Response:

Plant physiology is the study of the functions and processes of plants. It encomp

- 1. **Photosynthesis**: The process by which green plants, algae, and some back
- 2. **Respiration**: The process by which plants convert the glucose produced du
- 3. **Water and Nutrient Uptake**: Plants absorb water and minerals from the soi
- 4. **Growth and Development**: Plant growth is driven by cell division and elong
- 5. **Transport Mechanisms**: Plants have specialized tissues for the transport o
- 6. **Plant Responses to Environment**: Plants respond to various environmenta
- 7. **Stress Physiology**: Plants can experience various biotic and abiotic stresse
- 8. **Reproduction**: Plant physiology also includes the study of reproduction, bo

Plant physiology is critical for understanding how plants function in ecosystems,