

Plants Unit Overview

Section 12.1: The Characteristics of Plants

- Know the basic needs of plants
- Know what Vascular plants are, examples and be able to describe their features.
- Answer 1-4, 6 pg 545

Section 12.2: Leaves

- Know the basic function and structure of leaves
- Know basic structures of Cross the section of dicot leaf (diagram in packages) and be able to explain what each does. E.g. guard cell, stoma, palisade mesophyll, spongy mesophyll, veins/vessels, cuticle, epidermis
- Know some examples of leaf specializations
- Give some examples of human uses of leaves
- Answer: 1-6 pg 551

Section 12.3: Stems

- Know the basic function and structure of stems
- Know the difference between vascular bundles and vascular cambium
- Know the different cell types in the vascular tissue of stems
- Know some examples of stem specializations
- Give some examples of human uses of stems
- Answer 1-4 pg 557

Section 12.4: Roots

- Know the basic function types and structure of roots
- Know some examples of root specializations
- Give some examples of human uses of roots
- Answer 1,4,7 pg 563

Section 12.5: Transport in Vascular Plants

- Know how plants transport water and nutrients through their various structures; root, stems, and leaves.
- Know how plants transport sugar through their various structures
- Answer 1-4 pg 570

Section 13.1: Succession

- Know the different levels of succession
- Answer 1-3 pg. 591

Section 13.2: Asexual Reproduction in Seed Plants

- Know the structures involved in Asexual Reproduction
- Explain some costs and benefits of Asexual Reproduction
- Give some examples of human uses of Asexual Reproduction
- Answer 1-4 pg 594

Section 13.3: Sexual Reproduction in Seed Plants

- Explain the function and structure of seeds
- Explain some costs and benefits of sexual Reproduction
- Describe sexual reproduction in Gymnosperms and Angiosperms
- Explain hoe Pollination and Fertilization work
- Give some examples of human uses of seeds and fruit
- Answer 1,2,6 pg 602

Section 13.5: Plant Growth and Development

- Explain the different types of Growth that happen in plants
- Give some examples of factors that affect plant growth
- Answer 1, 3, 4, 5, 6 pg 612

Section 13.6: Control of Plant Growth and Development

- Describe the different plant growth regulators.
- Answer 2,3,4 pg 618