Biology Plants Notes Outline

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Plants**

22.1 Introduction to Plants-

What is a Plant?

The Plant Life Cycle-

 **Sporophyte-**

 **Gametophyte-**

What Plants Need to Survive-

 1. Sunlight-

 2. Water and Minerals-

 3. Gas Exchange-

 4. Movement of Water and Nutrients-

Early Plants-

 Origins in the Water-

 The First Plants-

Overview of the Plant Kingdom-

**SECTION QUESTIONS**

**1. What is the definition of a plant?**

**2. To live successfully on land, what substances must plants obtain from their environment?**

22.5 Angiosperms – Flowering Plants

Flowers and Fruits-

 **Fruit-**

Diversity of Angiosperms-

 Monocots and Dicots-

 **Monocots-**

 **Dicots-**

 **Cotyledon-**

Woody and Herbaceous Plants-

Annuals, Biennials, and Perennials-

 **Annuals-**

 **Biennials-**

 **Perennials-**

**SECTION QUESTIONS**

**1. What are monocots and dicots?**

**2. How do annuals, biennials, and perennials differ?**

24.1 Reproduction with Cones and Flowers-

Alternation of Generations-

Life Cycle of Gymnosperms

 Pollen Cones and Seed Cones-

 **Pollen Cones-**

 **Seed Cones-**

 **Ovules-**

Pollination-

 Fertilization and Development-

Structure of Flowers-

 Sepals and Petals-

 **Sepals-**

 **Petals-**

Stamens and Carpels-

 **Stamen-**

 **Filament-**

 **Anther-**

 **Carpels-**

 **Ovary-**

 **Style-**

 **Stigma-**

24.2 Seed Development and Germination-

Seed and Fruit Development-

Seed Dispersal-

 Dispersal by Animals-

 Dispersal by Wind and Water-

Seed Dormancy-

 **Dormancy-**

Seed Germination-

 **Germination-**