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-**