

## **Biology Lab Schedule**

### **First Semester**

9/16	Scientific Method and Experimentation
9/23	Organic Compounds
9/30	Enzyme Catalysis
10/7	Cellular Models
10/14	Diffusion and Osmosis
10/21	Cellular Respiration
10/28	Meiosis Observation
11/4	Genetics Overview and Discussion
11/18	Genotypes and Phenotypes
12/2	Genetics of Drosophila
12/9	DNA Extraction
1/13	Population Genetics

## **Second Semester**

1/20	Experimental Design
1/27	Chemoreceptors
2/3	Physiology of the Circulatory System
2/10	Exercise and Heart Rate
2/17	Leaf Pigment Chromatography
2/24	Transpiration
3/3	Plant Dissection
3/10	Animal Behavior
3/17	Frog Dissection
3/24	Squid Dissection
3/31	Response to Stimuli
4/7	Project Showcase

Correlation to Glencoe: Biology, the Dynamics of Life

Ecology/Population

Chapter 1: Biology the Study of Life

Chapter 2: Principles of Ecology

Chapter 3: Communities and Biomes

Chapter 4: Population Biology

Chapter 5: Biological Diversity and Conservation

**The Scientific Method and Experimentation**

Cellular Biology:

Chapter 6: Chemistry of Life

**Enzyme Catalysis**

Chapter 7: View of a cell

**Cellular Models**

Chapter 8: Cellular Transport and Cell Cycle

**Diffusion and Osmosis**

Chapter 9: Energy in a Cell

**Cellular Respiration**

Genetics:

Chapter 10: Mendel and Meiosis

**Meiosis Observation**

Chapter 11: DNA and Genes

**Genotypes and Phenotypes**

Chapter 12: Patterns of Heredity

**Genetics of Drosophila**

Chapter 13: Genetic Technology

**DNA Extraction**

Chapter 14: History of Evolution

Chapter 15: Theory of Evolution

**Population Genetics**

Diversity:

Chapter 17: Organizing Life's Diversity

Chapter 18: Viruses and Bacteria

## Chapter 34: Protection, Support and Locomotion

### Body Systems:

Chapter 35: The Digestive System

**Chemoreceptors**

Chapter 36: The Nervous System

Chapter 37: Respiration, Circulation and Excretion

**Physiology of the Circulator System**

**Exercise and Heart Rate**

Chapter 38: Reproduction and Development

Chapter 39: Immunity from Disease

### Plants:

Chapter 21: What is a Plant?

Chapter 22: Plant Structure and Function

**Leaf Pigment Chromatography**

**Transpiration**

**Plant Dissection and Observation**

Chapter 23: Reproduction in Plants

### Animals:

Chapter 25: What is an Animal

**Animal Behavior**

Chapter 39: Echinoderms and Invertebrate Chordates

**Response to Stimuli**

Chapter 30: Fishes and Amphibians

**Frog Dissection**

**Squid Dissection**