

## Biology One Course Completion Guideline

If you are completing your classes in 18 weeks, you need to complete ½ a module a week.  
If you are completing your classes in 12 weeks, you need to complete about 1 module a week.  
If you are completing your classes in 9 weeks, you need to complete 1 module a week.  
If you are completing your classes in 6 weeks, you need to complete 1 ½ modules a week.  
If you are completing your classes in 3 weeks, you need to complete 3 modules a week.

### MODULE ONE

#### UNIT ONE – WHAT IS BIOLOGY?

##### Ch. 1 – *Biology: The study of Life*

- Conditions for Life Video Worksheet
- What is Life Video Worksheet
- Biology Suffixes and Prefixes Worksheet
- Vocabulary Crossword Puzzle
- Examples of Characteristics of Living Things
- Components of Scientific Method
- Frog Metamorphosis Lab
- Designing an Experiment
- Metric Measurements
- Problem Solving Lab 1-2
- Unit 1 Chapter 1 BioLab

#### UNIT TWO – ECOLOGY

##### Ch. 2 – *Principles of Ecology*

- Video – Organisms and their Environment Quiz
- Ecosphere – Where all Life Exists Video Wksht.
- Problem Solving Lab 2-1
- Food Web Worksheet

### MODULE TWO

- Raptor Food Web Worksheet
- Problem Solving Lab 2-2
- Cycles of Matter Worksheet

##### Ch. 3 – *Communities & Biomes*

- Succession Worksheet
- World's Biomes – Deserts to Rainforest Video
- Biomes of the World Map Worksheet
- Puget Sound Food Web Worksheet
- Problem Solving Lab 3-2
- Forest Biomes of N. America Worksheet

##### Ch. 4 – *Population Biology*

- Population Biology Worksheet
- Mice-Foxes Population Dynamics
- Problem Solving Lab 4-1
- Ecological Relationships
- Human Population Growth Worksheet

##### Ch. 5 – *Biological Diversity & Conservation*

- Threats to Biodiversity Video Worksheet

### MODULE THREE

- Biological Diversity & Conservation Worksheet
- Problem Solving Lab 5-2
- Unit 2 Biolab – Exotic Pet
- Geoduck Farming Controversy

#### UNIT THREE – LIFE OF A CELL

##### Ch. 6 – *Chemistry of Life*

- Matter – Atoms & Molecules Video Worksheet
- Matter – Atoms Tutorial
- Problem Solving Lab 6-1
- Periodic Table of Elements Worksheet
- Atoms, Molecules, Compounds Tutorial
- Elements, Compounds, & Mixtures Worksheet

- Problem Solving Lab 6-2
- Acid-Base Worksheet
- Passive Transport – Diffusion Worksheet
- Water – A polar Molecule Worksheet
- Organic Molecules of Life Worksheet

### MODULE FOUR

- Organic Compounds Worksheet
- Compounds & Chemical Reactions Worksheet

##### Ch. 7 – *View of the Cell*

- Cells – Building Blocks of Life Video Worksheet
- Cells – Unit of Life Powerpoint
- Comparing a Cell to a City Worksheet
- Cell Structures and Their Functions Worksheet
- Problem Solving Lab 7-1
- Problem Solving Lab 7-2
- Assembly Line for Cell Products

##### Ch. 8 – *Cellular Transport & the Cell Cycle*

- Matter & Energy on the Move Video Worksheet
- Maintaining Equilibrium Video Worksheet
- Cellular Transport Worksheet
- Mitosis Video Worksheet
- Identification of Phases of Mitosis
- Problem Solving Lab 8-1

### MODULE FIVE

- Mitosis in Plant & Animal Cell Powerpoint
- Problem Solving Lab 8-3
- Cell Cycle – Cancer Worksheet

##### Ch. 9 – *Energy in a Cell*

- Analyzing Photosynthesis & Cellular Respiration
- Energy Flow Worksheet
- Problem Solving Lab 9-1
- Problem Solving Lab 9-2
- Fermentation – Anaerobic Cellular Respiration

#### UNIT FOUR - GENETICS

##### Ch. 10 – *Mendel and Meiosis*

- Probability Lab
- Mendel's Studies Worksheet
- Genetic Monohybrid Crosses
- Dihybrid Crosses Video Worksheet