

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