

LCCS [7] Grade [SCIENCE] Curriculum Overview

Month	Unit
September	Unit 1: Data Analysis
September-October	Unit 2: What is Life? Living and Nonliving Things
October-November	Unit 3: Classifying Organisms
November-December	Unit 4: Micro-Organisms
January-February	Unit 5: Evolution
February-March	Unit 6: Mendelian Genetics and DNA
April-May	Unit 7: Invertebrates
May-June	Unit 8: Vertebrates
June	Unit 9: Environment and Ecosystems

Unit 1: Data Analysis

At a Glance: In this unit students are learning about the practices of science. Students will learn to make accurate observations and inferences, and gather, analyze, and interpret data.

Timeline: 9 Days

Unit 2: What is Life? Living and Nonliving Things

At a Glance: In this unit students are learning about the fundamental characteristics that all living things share. They will learn about basic cell structure and learn how to observe them under a microscope.

Timeline: 12 Days

Unit 3: Classifying Organisms

At a Glance: In this unit students will learn how and why living organisms are classified. They will also learn about the characteristics of various

types of microorganisms, and the role they play in nature.

Timeline: 10 Days

Unit 4: Micro-Organisms

At a Glance: In this unit students will learn about the similarities and differences among various types of microorganisms. They will also monitor and observe the growth of several types of microbes.

Timeline: 10 Days

Unit 5: Evolution

At a Glance: In this unit students will learn about how variation, natural selection, and time can play a role in determining the process of evolution. They will also organize and analyze data.

Timeline: 6 Days

Unit 6: Mendelian Genetics and DNA

At a Glance:

In this unit students will learn how the characteristics of all living things are passed from parent to offspring. They will learn about DNA and its role in inheritance, and they will discover the mechanisms through which cells reproduce.

Timeline: 16 Days

Unit 7: Invertebrates

At a Glance:

- In this unit students will learn about invertebrates, animals without a backbone. They will learn about the specific adaptations these organisms have. In addition, students will carry out several lab investigations collecting and analyzing both quantitative and qualitative data.

Timeline: 15 Days

Unit 8: Vertebrates

At a Glance: In this unit students will learn about vertebrates (animals with a backbone) and how they have adapted to survive in all habitats. They

will learn about the evolutionary origins of these animals, and what allowed them to move onto land. Students will carry out several lab activities, and learn about the flow of energy within a system of organisms

Timeline: 20 Days

Unit 9: Environment and Ecosystems

At a Glance: In this unit students will learn that there are many factors that influence living things in any one environment. These factors are all interconnected.

Timeline: 13 Days