

Life Science 7

Pacing Guide

1st Quarter

NOS – Scientific Explanations

SOL's – LS. 1a, 1d-j

Lessons –

- 1 Scientific Investigations & Explanations
- 2 Scientific Tools & Lab Safety
- 3 Metric Tools & Measurement

Chapter 1 – Exploring Life

SOL's – LS. 1b, 1d, 1j, 3a, 4a-b, 4d

Lessons –

- 1.1 Characteristics of Life
- 1.3 Exploring Life

Fall PBL – Scientific Investigation

2nd Quarter

Chapter 2 – Cell Structure

SOL's – LS. 1c,d, i, 2a-c, 12a

Lessons

- 2.1 Cells and Life
- 2.2 The Cell
- 2.3 Moving Cellular Material
- 2.4 Cells and Energy

Chapter 3 – From a Cell to an Organism

SOL's – LS. 1c-d, 2d, 3a

Lessons –

- 3.1 The Cell Cycle and Cell Division
- 3.2 Levels of Organization

Winter PBL – Cells

3rd Quarter

Chapter 4 – Reproduction of Organisms

SOL's – LS. 1d, 2d, 12f

Lessons –

- 4.1 Sexual Reproduction and Meiosis
- 4.2 Asexual Reproduction

Chapter 5 – Genetics

SOL's – LS. 1d, 1h-i, 12a-f, 13a

Lessons –

- 5.1 Mendel and His Peas
- 5.2 Understanding Inheritance
- 5.3 DNA and Genetics

Spring PBL – ? team

4th Quarter

Chapter 6 – The Environment and Change Over Time

SOL's – LS. 1d, 1h-i, 9c, 13a-c

Lessons –

- 6.1 Fossil Evidence of Evolution
- 6.2 Theory of Evolution by Natural Selection
- 6.3 Biological Evidence of Evolution

Chapter 1 – Classifying Life

SOL's – LS. 1b, 1d, 1j, 3a, 4a-b, 4d

Lesson –

1.2 Classifying Organisms

Chapter 7 – Plant Diversity

SOL's – LS. 1b-c, 2b, 3b, 4c

Lessons –

7.1 What is a Plant?

7.2 Seedless Plants

7.3 Seed Plants

Chapter 8 – Plant Processes and Reproduction

SOL's – LS. 1a-c, 1e-j, 5a-b, 10a

Lessons –

8.1 Energy Processing in Plants

8.2 Plant Responses

8.3 Plant Reproduction

Chapter 9 – Animal Diversity

SOL's – LS. 1b, 1d, 3b, 4c

Lessons –

9.1 What defines an animal?

9.2 Invertebrate Phyla

9.3 Phylum Chordata

Chapter 10 – Animal Behavior and Reproduction

SOL's – LS. 1a, 1f-g, 1i, 7a-b

Lessons –

10.1 Types of Behavior

10.2 Interacting with Others

10.3 Animal Reproduction and Development

Abbreviated lessons covering the basics of plants, animals & animal behavior

Chapter 11 – Matter and Energy in the Environment

SOL's – LS. 1f-i, 5b-c, 6a-e, 8a, 9a-b, 11e

Lessons –

11.1 Abiotic Factors

11.2 Cycles of Matter

11.3 Energy in Ecosystems

Chapter 12 – Populations and Communities

SOL's – LS. 1d, 5c, 6b-d, 7a-b, 8a-e, 10b-c, 11a-e

Lessons –

12.1 Populations

12.2 Changing Populations

12.3 Communities

Chapter 13 – Biomes and Ecosystems

SOL's – LS. 1i, 9a-b, 10c, 11a-b, d-e

Lessons –

13.1 Land Biomes

13.2 Aquatic Ecosystems

13.3 How Ecosystems Change

PBL – Biomes

Review. Taught in previous years.