**Chapter 10: Introduction to Living Things Objectives Sheet**

Lesson 1: What is Life?

Lesson 2: Classifying Life?

Lesson 3: Domains and Kingdoms?

Lesson 4: Evolution and Classification?

**Standards:**

8.3.1. Explain that reproduction is essential for the continuation of every species and is the mechanism by which all organisms transmit genetic information.

8.3.2. Compare and contrast the transmission of genetic information in sexual and asexual reproduction.

8.3.6. Observe anatomical structures of a variety of organisms and describe their similarities and differences.

8.NS.1. Make predictions.

8.NS.2. Plan and carry out investigations.

8.NS.3. Collect data and use appropriate units.

8.NS.4. incorporate varibales.

8.NS.5. Use accuracy and precision.

8.NS.6. Test predictions.

8.NS.7. Keep accurate records in a notebook.

8.NS.8. Analyze data.

8.NS.9. Evaluate possible causes for differing results.

8.NS.10. compare results with the prediction.

8.NS.11. Communicate findings.

8.DP.1. Identify a need or problem.

8.DP.2. Brainstorm potential solutions.

8.DP.3. Document the design.

8.DP.4. Select a solution.

8.DP.5. Select appropriate materials.

8.DP.6. Create a prototype.

8.DP.7. Test how ell solutions meets goal.

8.DP.8. Evaluate the design using measurement.

8.DP.9. Present evidence using mathematical representations.

8.DP.10. Communicate the solution.

8.DP.11. Redesign to improve the solution.

**Objectives:**

Lesson 1:

* List the characteristics all living things share.
* Explain where living things come from.
* Identify what all living things need to survive.

Lesson 2:

* Explain why biologists classify organisms and how they assign scientific names.
* Describe the organization of the levels of classification.
* Explain how taxonomic keys are useful.

Lesson 3:

* Explain how organisms are classified into domains and kingdoms.

Lesson 4:

* Explain the relationship between evolution and classification.

**Learning Activities/Assessments:**

* Untamed Science Video: “What can you explore in a swamp?”
* “Characteristics of Living Things” Concept Map
* Alien Classification Lab
* Classification chart
* Dichotomous Key (lab ware)
* “What Organism Goes Where?” Quick Lab
* Chapter 10 and Chapter 11 Summative Assessment