**Adaptation and Behavior Unit**

**Table of Contents**

1. **Lesson #1: Introduction to Inheritance – Inherited Human Traits**
	1. Lesson plan
	2. Examples of human inherited traits
	3. Inherited human traits photographs (student copies provided and overhead)
	4. Inherited human traits teacher chart (overhead)
	5. Inherited human traits student chart, analysis, and graph (student copies provided)
	6. Frequency of traits in the general human population chart (overhead or make copies)
2. **Lesson #2: Inherited Traits of Living Things**
	1. Lesson plan
	2. Teacher information
	3. Characteristics of living things student instructions (overhead or make copies)
	4. Pictures of living things with questions (student copies provided)
3. **Lesson #3: Introduction to Adaptation**
	1. Lesson Plan
	2. Arctic and desert descriptions and pictures (overhead or PowerPoint)
	3. Polar bear and Gila monster descriptions and pictures (overhead or PowerPoint)

1. **Lesson #4: Natural Systems and Mechanical Systems**
	1. Lesson plan
	2. Article: The Physics of Flight (student copies provided)
	3. Bernoulli’s principle and Coanda effect demonstration and experiment teacher instructions
2. **Lesson #5: Bird Beak Adaptation**
	1. Lesson plan
	2. Bird beak pictures (overhead or PowerPoint)
	3. Bird beak challenges instructions and supplies (make copies)
	4. Bird adaptations student instructions, data chart, and graph (student copies provided)
	5. Build a bird kit (student copies provided)
3. **Lesson #6: Adaptation – Increasing Survival and Reproduction**
	1. Lesson plan
	2. Squirrels student handout (make copies or use overhead)
	3. Squirrels chart (make copies or use overhead)
4. **Lesson #7: How Does Adaptation Happen? – Adaptation Simulation**
	1. Lesson plan
	2. Teacher simulation chart
	3. Adaptation simulation data (overhead)
	4. Student adaptation simulation predictions, pom poms record sheets, data chart, graphs, and analysis questions (student copies provided)
	5. Cacti and deer extension activity (student copies provided)

1. **Lesson #8: How Living Things Respond to Changes in the Environment**
	1. Lesson plan
	2. Article: How Changes in the Environment Can Cause Animal and Plant Extinction and Migration (student copies provided)
	3. Sample Food Web (make copies or overhead)
2. **Lesson #9: Adaptation – Raccoon Islands**
	1. Lesson plan
	2. Raccoon fact sheet (make copies or overhead)
	3. Island descriptions and diagrams (student copies provided)
3. **Lesson #10: Introduction to Behavior**
	1. Lesson plan
4. **Lesson #11: Learned and Instinctive Behavior**
	1. Lesson plan
	2. Pictures with descriptions of animal behaviors (overhead or PowerPoint)
5. **Lesson #12: Mapping Cricket Behavior**
	1. Lesson plan
	2. Mapping cricket behavior student instructions (student copies provided)
6. **Lesson #13: Research Project on Animal Adaptations**
	1. Lesson plan
	2. Student research project description and instructions (make copies)
	3. Student research project grading rubrics (make copies)
7. **Materials List for the Unit**
8. **Book List for the Unit**