

## **Insect Adaptation Lab, 1--2 hour lab**

### **Related TEKS (revised for 2010-2011), 2nd—5th grade**

#### **112.13: Science, Grade 2**

- (b)2. Scientific investigation and reasoning. The student develops abilities necessary to do scientific inquiry in classroom and outdoor investigations. The student is expected to:
- A. Ask questions about organisms, objects, and events during observations and investigations.
  - C. Collect data from observations using simple equipment such as hand lenses...
  - D. Record and organize data using pictures, numbers, and words.
- (b)4. Scientific investigation and reasoning. The student uses age-appropriate tools and models to investigate the natural world. The student is expected to:
- A. Collect, record, and compare information using tools, including...hand lenses...collecting nets, notebooks, and materials to support observations of habitats of organisms such as terrariums and aquariums.
- (b)9. Organisms and environments. The student knows that living organisms have basic needs that must be met for them to survive within their environment. The student is expected to:
- A. Identify the basic needs of plants and animals.
- (b)10. Organisms and environments. The student knows that organisms resemble their parents and have structures and processes that help them survive within their environments. The student is expected to:
- A. Observe, record, and compare how the physical characteristics and behaviors of animals help them meet their basic needs...
  - C. Investigate and record some of the unique stages that insects undergo during their life cycle.

#### **112.14: Science, Grade 3**

- (b)4. Scientific investigation and reasoning. The student knows how to use a variety of tools and methods to conduct science inquiry. The student is expected to:
- A. Collect, record, and compare information using tools, including hand lenses... collecting nets, notebooks...and materials to support observation of habitats of organisms such as terrariums and aquariums.
- (b)10. Organisms and environments. The student knows that organisms undergo similar life processes and have structures that help them survive within their environments. The student is expected to:
- A. Explore how structures and functions of plants and animals allow them to survive in a particular environment.
  - C. Investigate and compare how animals undergo a series of orderly changes in their diverse life cycles.

**112.15: Science, Grade 4**

- (b)2. Scientific investigation and reasoning. The student uses scientific inquiry methods during laboratory and outdoor investigations. The student is expected to:
- B. Collect and record data by observing and measuring...and using descriptive words and numerals such as labeled drawings, writing, and concept maps.
- (b)4. Scientific investigation and reasoning. The student knows how to use a variety of tools, materials, equipment, and models to conduct science inquiry. The student is expected to:
- A. Collect, record, and analyze information using tools, including ...hand lenses,...collecting nets, and notebooks...and materials to support observation of habitats of organisms such as terrariums and aquariums.
- (b)10. Organisms and environments. The student knows that organisms undergo similar life processes and have structures that help them survive within their environment. The student is expected to:
- A. Explore how adaptations enable organisms to survive in their environment.
  - C. Explore, illustrate, and compare life cycles in living organisms.

**112.16: Science, Grade 5**

- (b)2. Scientific investigation and reasoning. The student uses scientific methods during laboratory and outdoor investigations. The student is expected to:
- C. Collect information by detailed observations and accurate measuring.
- (b)4. Scientific investigation and reasoning. The student knows how to use a variety of tools and methods to conduct science inquiry. The student is expected to:
- A. Collect, record, and analyze information using tools, including ... hand lenses, ... collecting nets, notebooks, ...and materials to support observations of habitats of organisms such as terrariums and aquariums.
- (b)10. Organisms and environments. The student knows that organisms undergo similar life processes and have structures that help them survive within their environments. The student is expected to:
- A. Compare the structures and functions of different species that help them live and survive.
  - C. Describe the differences between complete and incomplete metamorphosis of insects.