

Planting the Seeds, 1--3 hour lab

Related TEKS (revised for 2010-2011), 2nd—6th grade

112.13: Science, Grade 2

- (b)2. Scientific investigation and reasoning. The student develops abilities necessary to do scientific inquiry in the 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...and non-standard measurement tools.
 - 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, and notebooks.
- (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.
 - C. Compare and give examples of the ways living organisms depend on each other and on their environments such as food chains within a garden, park, beach, lake and wooded area.
- (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:
- B. Observe, record, and compare how the physical characteristics of plants help them meet their basic needs such as stems carry water throughout the plant.

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, and notebooks.
- (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...plants 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, using the metric system, and using descriptive words and numerals such as labeled drawings and writing...
- (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.
- (b)9. Organisms and environments. The student knows and understands that living organisms within an ecosystem interact with one another and with their environment. The student is expected to:
- A. Investigate that most producers need sunlight, water, and carbon dioxide to make their own food, while consumers are dependent on other organisms for food.
- (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 such as comparing...leaves on plants.
 - C. Explore, illustrate, and compare life cycles in living organisms...

112.16: Science, Grade 5

- (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, and notebooks.
- (b)9. Organisms and environments. The student knows that there are relationships, systems, and cycles within environments. The student is expected to:
- D. Identify the significance of the carbon dioxide-oxygen cycle to the survival of plants and animals.
- (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.

112.18: Science, Grade 6

- 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. Use appropriate tools to collect, record, and analyze information, including journals/notebooks, ... and other equipment.