

**Live, From McDonald Observatory  
Videoconference  
“Observing Venus: explore phases”  
Grades 6-8 TEKS alignments**



**Grades 6-8 TEKS - Science:**

- 112.18. Grade 6(b) - 2 (A) plan and implement comparative and descriptive investigations by making observations, asking well-defined questions, and using appropriate equipment and technology.
- 112.18. Grade 6(b) - 2 (C) collect and record data using the International System of Units (SI) and qualitative means such as labeled drawings, writing, and graphic organizers.
- 112.18. Grade 6(b) - 2 (E) analyze data to formulate reasonable explanations, communicate valid conclusions supported by the data, and predict trends.
- 112.18. Grade 6(b) - 3 (A) in all fields of science, analyze, evaluate, and critique scientific explanations by using empirical evidence, logical reasoning, and experimental and observational testing, including examining all sides of scientific evidence of those scientific explanations, so as to encourage critical thinking by the student.
- 112.18. Grade 6(b) - 3 (B) use models to represent aspects of the natural world such as a model of Earth's layers
- 112.18. Grade 6(b) - 3 (D) relate the impact of research on scientific thought and society, including the history of science and contributions of scientists as related to the content.
- 112.18. Grade 6(b) - 4 (A) use appropriate tools to collect, record, and analyze information, including journals/notebooks, beakers, Petri dishes, meter sticks, graduated cylinders, hot plates, test tubes, triple beam balances, microscopes, thermometers, calculators, computers, timing devices, and other equipment as needed to teach the curriculum
- 112.18. Grade 6(b) - 11 (A) describe the physical properties, locations, and movements of the Sun, planets, Galilean moons, meteors, asteroids, and comets
- 112.18. Grade 6(b) - 11 (B) understand that gravity is the force that governs the motion of our solar system
  
- 112.19. Grade 7(b) - 2 (A) plan and implement comparative and descriptive investigations by making observations, asking well-defined questions, and using appropriate equipment and technology
- 112.19. Grade 7(b) - 2 (E) analyze data to formulate reasonable explanations, communicate valid conclusions supported by the data, and predict trends.
- 112.19. Grade 7(b) - 3 (A) in all fields of science, analyze, evaluate, and critique scientific explanations by using empirical evidence, logical reasoning, and experimental and observational testing, including examining all sides of scientific evidence of those scientific explanations, so as to encourage critical thinking by the student.
- 112.19. Grade 7(b) - 3 (B) use models to represent aspects of the natural world such as human body systems and plant and animal cells.
- 112.19. Grade 7(b) - 3 (D) relate the impact of research on scientific thought and society, including the history of science and contributions of scientists as related to the content.
- 112.19. Grade 7(b) - 4 (A) use appropriate tools to collect, record, and analyze information, including life science models, hand lens, stereoscopes, microscopes, beakers, Petri dishes, microscope slides, graduated cylinders, test tubes, meter sticks, metric rulers, metric tape measures, timing devices, hot plates, balances, thermometers, calculators, water test kits, computers, temperature and pH probes, collecting nets, insect traps, globes, digital cameras, journals/notebooks, and other equipment as needed to teach the curriculum.

**Live, From McDonald Observatory  
Videoconference  
“Observing Venus: explore phases”  
Grades 6-8 TEKS alignments**



- 112.20. Grade 8(b) - 2 (A) plan and implement comparative and descriptive investigations by making observations, asking well-defined questions, and using appropriate equipment and technology.
- 112.20. Grade 8(b) - 2 (E) analyze data to formulate reasonable explanations, communicate valid conclusions supported by the data, and predict trends.
- 112.20. Grade 8(b) - 3 (A) in all fields of science, analyze, evaluate, and critique scientific explanations by using empirical evidence, logical reasoning, and experimental and observational testing, including examining all sides of scientific evidence of those scientific explanations, so as to encourage critical thinking by the student.
- 112.20. Grade 8(b) - 3 (B) use models to represent aspects of the natural world such as an atom, a molecule, space, or a geologic feature.
- 112.20. Grade 8(b) - 3 (D) relate the impact of research on scientific thought and society, including the history of science and contributions of scientists as related to the content.
- 112.20. Grade 8(b) - 4 (A) use appropriate tools to collect, record, and analyze information, including lab journals/notebooks, beakers, meter sticks, graduated cylinders, anemometers, psychrometers, hot plates, test tubes, spring scales, balances, microscopes, thermometers, calculators, computers, spectrosopes, timing devices, and other equipment as needed to teach the curriculum.