Live from McDonald Observatory
Science TEKS Grades 6 - 8

Grade 6

Scientific Inquiry
2. The student uses scientific inquiry methods during field and laboratory investigations.
   *B. collect information by observing and measuring.
   *C. organize, analyze, and interpret information to construct reasonable explanations from direct and indirect evidence.
   *D. communicate valid conclusions.
   Students participate in a guided inquiry videoconferencing session about telescopes at McDonald Observatory and characteristics of the Sun.

Tools and Technology
4. The student knows how to use a variety of tools and methods to conduct science inquiry.
   *A. collect and analyze information using tools: cameras and computers.
   Students are collecting and analyzing data (digital images) from McDonald Observatory solar telescopes via videoconference. In a sense, this is remote observing.

Solar System
*13. The student knows components of our solar system.
   A. identify characteristics of objects in our solar system including the Sun, planets, meteorites, comets, asteroids, and moons.
   Students study and observe characteristics of the Sun.
Grade 8

Scientific Inquiry
2. The student uses scientific inquiry methods during field and laboratory investigations.
   *B. collect information by observing and measuring.
   *C. organize, analyze, and interpret information to construct reasonable explanations from direct and indirect evidence.
   *D. communicate valid conclusions.
   Students participate in a guide inquiry video conferencing session about telescopes at McDonald Observatory and characteristics of the Sun.

Tools and Technology
4. The student knows how to use a variety of tools and methods to conduct science inquiry.
   *A. collect and analyze information using tools: cameras and computers.
   *B. extrapolate from collected information to make predictions.
   Students are collecting and analyzing data (digital images) from McDonald Observatory solar telescopes via videoconference. In a sense, this is remote observing.

Atomic Structure
8. The student knows that matter is composed of atoms.
   *A. describe the structure and parts of an atom.
   *B. identify the properties of an atom including mass and electric charge.
   Students observe light emitted by H-alpha transitions and the behavior of a plasma.

The Universe
13. The student knows characteristics of the universe.
   *A. describe characteristics of the universe such as stars and galaxies.
   The Sun is a star.