“Live… from McDonald Observatory!”
Videoconference
“Galaxies: Make a Scale Model”
Related TEKS, NSES for grades 8-12

Grades 9 – 12 TEKS:

• 112.33. Astronomy (c) - 6 (C) examine the scale, size, and distance of stars, Milky Way, and other galaxies through the use of data and modeling.
• 112.33. Astronomy (c) - 6(E) demonstrate the use of units of measurement in astronomy, including Astronomical Units, and light years.
• 112.33. Astronomy (c) – 12(A) describe the characteristics of galaxies.
• 112.33. Astronomy (c) – 12 (B) recognize the type, structure, and components of the Milky Way galaxy and location of our solar system with it.

Grades 9 – 12 NSES:
• Content Standard in 9-12 Earth and Space Science – Origin and evolution of the universe
• Content Standard in 9-12 Science as Inquiry – Understanding about scientific inquiry.
• Content Standard in 9-12 Physical Science – Motions and forces

Grade 8 TEKS - Science:

• 112.20(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 (b) – 3(C) identify advantages and limitations of models such as size, scale, properties, and materials.
• 112.20 (b) – 8(A) describe the components of the universe, including stars, nebulae, and galaxies, and use models such as the Hertzsprung-Russell diagram for classification.
• 112.20 (b) – 8(B) recognize that the Sun is a medium-sized star near the edge of a disc-shaped galaxy of stars and that the Sun is many thousands of times closer to Earth than any other star
• 112.20 (b) – 8(C) explore how different wavelengths of the electromagnetic spectrum such as light and radio waves are used to gain information about distances and properties of components in the universe.
• 112.20 (b) – 8(D) model and describe how light years are used to measure distances and sizes in the universe.

Grade 8 NSES:
• Content Standard in 5-8 Science as Inquiry – Understanding about scientific inquiry.
• Content Standard in 5-8 Physical Science – Motions and forces