

**“Live... from McDonald Observatory!”
Videoconference
“Discover our Solar System: Make a Size
Scale Model”
Related TEKS, NSES for grades 9-12**



McDonald Observatory

Grades 9 – 12 TEKS:

- 111.34. Geometry (b) - 11 (B) use ratios to solve problems involving similar figures.
- 111.34. Geometry (b) - 11(D) describe the effect on perimeter, area, and volume when one or more dimensions of a figure are changed and apply this idea in solving problems.
- 112.33. Astronomy (c) – 6(A) compare and contrast the scale, size, and distance of the Sun, Earth, and Moon system through the use of data and modeling

Grades 9 – 12 National Math Standards and Expectations:

- Make decisions about units and scales that are appropriate for problem situations involving measurement
- Understand and use formulas for the area, surface area, and volume of geometric figures.

Grades 9 – 12 NSES:

- Content Standard in 9-12 Science and Technology – Students should develop abilities of technological design
- Content Standard in 9-12 Science as Inquiry – Abilities necessary to do scientific inquiry, and Understanding about scientific inquiry.