



SkyDome Planetarium Science Standards Alignment Overview

Princeton's SkyDome Planetarium programs are designed to reinforce classroom instruction by engaging students in observable, model-based exploration of Earth and space science concepts. The learning objectives below identify Next Generation Science Standards (NGSS) performance expectations that may be addressed during our presentations, depending on grade level and program focus.

Primary Grades (K–2)

- 1-ESS1-1: Observing patterns of the sun, moon, and stars
- 1-ESS1-2: Relating daylight patterns to seasonal changes

Upper Elementary (3–5)

- 5-ESS1-1: Investigating how distance affects apparent brightness of celestial objects
- 5-ESS1-2: Interpreting data on shadows, day/night cycles, and seasonal sky changes

Middle School (6–8)

- MS-ESS1-1: Modeling Earth-sun-moon relationships and cyclical patterns
- MS-ESS1-2: Exploring gravity's role in the solar system and galaxies
- MS-ESS1-3: Analyzing scale and proportional relationships within the solar system

Because our programs are adapted for a wide range of grade levels and learning environments, individual presentations may emphasize different concepts. Not all listed standards are addressed in every session.

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