

Scope and Sequence

SCIENCE

6th Science TEKS

- 6.13 A** Identify characteristics of objects in our solar system including the Sun, planets, meteorites, comets, asteroids, and moons.
- 6.13 B** Describe types of equipment and transportation needed for space travel.
- 6.3 C** Represent the natural world using models and identify their limitations.
- 6.3 D** Evaluate the impact of research on scientific thought, society, and the environment.
- 6.6 A** Identify and describe the changes in position, direction of motion, and speed of an object when acted upon by force.
- 6.6 B** Demonstrate that changes in motion can be measured and graphically represented.

Weekly Activities

Week 1

Create a visual that illustrates the numerous systems found on the planetary level, and how those systems interact with the larger systems found within the solar system. (6.13B)

Week 2 and Week 3

Create a model rocket, using provided components, that is capable of flight and describe what forces allow it to fly. (6.3C, 6.6B, 6.13B)

Week 4

Complete a group presentation and a one page science journal reflection describing the types of equipment and transportation needed for space travel. (6.13B)

Glove Simulation 6.6A, 6.13B

Newton's Laws of Motion - skateboard 6.6A, 6.13B

Applications of NASA research in every day life - Then and Now 6.3D

Week 5 and Week 6

Create a comic strip detailing a trip through our solar system. Students are to take the position that they are traveling from another system to ours for the first time. The comic strip will include a description of the Sun, meteoroids, meteors, asteroids, moons, and comets. (6.13A)

Week 7, Week 8, Week 9

Create panoramic view of 1st mission to the moon. Also, students will include a timeline - major points in history leading to the landing on the Moon. Students will choose mode of communicating timeline. Examples are PP presentations, picture stories, movie, or other. (6.3C, 6.3D, 6.13B)