

2014 Space Camp Standards Alignment

Activities at the 2014 Space Camp are aligned with the following Nebraska Academic Standards. The standards are based upon those listed on the Nebraska Department of Education website on 08/20/2014.

<http://www.education.ne.gov/AcademicStandards/index.html>

Speaking/Listening Standard

Speaking Skills: Students will develop, apply, and refine speaking skills to communicate key ideas in a variety of situations.

LA 8.3.1.a Communicate ideas and information in a manner appropriate for the purpose and setting

LA 8.3.1.b Demonstrate and adjust speaking techniques for a variety of purposes and situations

LA 8.3.1.c Utilize available media to enhance communication

Listening Skills: Students will develop, apply, and refine active listening skills to communicate key ideas in a variety of situations.

LA 8.3.2.a Apply listening skills needed for multiple situations and modalities (e.g. video, audio, distance, one to one, group)

LA 8.3.2.b Listen and ask questions concerning the speaker's content, delivery, and purpose

Reciprocal Communication: Students will develop, apply, and adapt reciprocal communication skills.

LA 8.3.3.b Interact and collaborate with others in learning situations by contributing questions, information, opinions, and ideas using a variety of media and formats

LA 8.3.3.c Respect diverse perspectives while collaborating and participating as a member of the community

Math Standard

Students will communicate geometric concepts and measurement concepts using multiple representations to reason, solve problems, and make connections within mathematics and across disciplines

MA 8.2.5 Students will select and apply appropriate procedures, tools, and formulas to determine measurements

MA 8.4.2 Students will evaluate predictions and make inferences based on data

Science Standard

Earth and Space Sciences: Students will integrate and communicate the information, concepts, principles, processes, theories, and models of Earth and Space Sciences to make connections with the natural and engineered world.

SC8.2.2 Students will investigate and describe forces and motion.

SC8.2.2.a Describe motion of an object by its position and velocity

SC8.2.2.b Recognize an object that is not being subjected to a force will continue to move at a constant speed in a straight line or stay at rest (Newton's 1st law)

SC8.2.2.c Compare the motion of objects related to the effects of balanced and unbalanced forces

SC8.2.2.d Recognize that everything on or around Earth is pulled towards Earth's center by gravitational force

SC 8.4.1 Students will investigate and describe Earth and the solar system (the Sun, planets, moons, asteroids, comets)

SC 8.4.1.b Describe the relationship between motion of objects in the solar system and the phenomena of day, year, eclipses, phases of the Moon and seasons

SC 8.4.1.c Describe the effects of gravity on Earth (tides) and the effect of gravity on objects in the solar system

Social Studies Standard

Students will develop and apply spatial perspective and geographic skills to make informed decisions regarding issues and current events at local, state, national and international levels.

SS 8.3.3 Students will investigate how natural processes interact to create and change the natural environment

SS 8.3.3.c Use physical processes to explain patterns in the physical environment (e.g., volcanoes creating islands, faulting changing mountains, glaciation creating the Great Lakes)

SS 8.4.2 (US) Students will analyze the impact of people, events, ideas, and symbols upon US history using multiple types of sources

Transition Goals

Students will have an opportunity to experience and research different careers

Students will investigate, research, and experience careers in the field of scientific research and space exploration. Students will leave the activity with a better understanding about different jobs that are available in this area and the training/education needed to pursue these jobs.