



About the Challenge

“Spaced Out Sports” is a national student design challenge geared toward grades 5-8. The purpose is for students to apply Newton’s Laws of Motion by designing or redesigning a game for International Space Station (ISS) astronauts to play in space. As students design a new sport, they will learn about Newton’s Laws of Motion and the effect of gravity on an object. They will learn to predict the difference between a game or activity played on Earth and in the microgravity environment of the ISS.

Student teams will submit game demonstrations via a playbook and a video.
“Spaced Out Sports” winning teams will be selected regionally and nationally.

- The first (1st) place team will be awarded a NASA school-wide celebration.
- The top three (3) team games will be played on the ISS and will be broadcast (later) on the ISS.
- All contributing schools will participate in a Digital Learning Network (DLN) webcast with ISS astronauts.

****Project Components**

Poster and Bookmark

A “Spaced Out Sports” poster and bookmark will portray space and sports connections on side 1; and “Spaced Out Sports” activity guide information on side 2.

Career Video:

NASA scientists and engineers will explain how Newton’s Laws are used in their work in the space program. Celebrity sports figures will demonstrate the “Science Behind their Game.”

Curriculum Guide Activities:

“Spaced Out Sports” educator guide activities will include NASA activities on Newton’s Laws of Motion, and will include sports connections and challenges that tie each activity to a game.

Digital Learning Network (DLN) Modules:

“Spaced Out Sports” DLN modules will provide videos, demonstrations, and design challenges of sports in microgravity. Modules will guide the teams in development of their games.

** All components will be posted on the NASA website at: www.nasa.gov; and on the Stennis Space Center website at: <http://education.ssc.nasa.gov/spacedoutsports>.