



NASA's Commercial Crew Program Virtual Reality 360 Tour

Video Highlights

Video link: <https://youtu.be/Q412u-Pwzd0>

Description

This condensed video includes highlights as a NASA communications specialist and a NASA STEM Engagement specialist take students on an immersive virtual reality (VR) tour and overview of NASA's Commercial Crew Program (CCP). This video can serve as a brief introduction or recap for various lessons.



Next Gen STEM and the Commercial Crew Program

The CCP (<https://nasa.gov/exploration/commercial/crew/index.html>) plays an integral role in NASA's deep space exploration goals as it works with commercial partners to launch astronauts to the International Space Station from U.S. soil on American-built rockets and spacecraft.

NASA's Next Gen STEM CCP project is introducing immersive technology into classrooms. The 360° videos and VR field trips take students along on a journey into the heart of the CCP without leaving the classroom. The virtual field trips to NASA centers and the Boeing and SpaceX facilities showcase where next-generation, human-rated spacecraft and rockets are being developed and tested.

Follow this link to access NASA's CCP virtual field trips:

<https://youtube.com/playlist?list=PLStC43yAV6zQvFdRe4ch2I8ihBuqTylJf>

Get a Leg Up

Trading Earth's environment for the environment of space is exciting. As the environment changes, so will an astronaut's body. Less gravity is one of the major changes astronauts will experience while living in space. Traveling to Mars, and perhaps even farther into deep space, will involve living in space for months or even years. In this activity, students will explore how an astronaut's body changes and adapts as a result of living in a reduced-gravity environment.

https://nasa.gov/pdf/146854main_Get_A_Leg_Up_Educator.pdf



Activity

Get a Leg Up

Grades

K to 4, 5 to 8

Duration

60 minutes

Subjects

- Biology
- Computer Science
- General Science
- Humans
- Life Science
- Living and Working in Space
- Space
- Space Station

Standards

Next Generation STEM Science Standards (NGSS)

3-LS4-4, 4-LS1-1, 5-LS1, LS4-4

Common Core State Standards (CCSS) for Mathematics

3.MD.B.3, 4.MD.B.4, 5MD.B.2
LS1-1

International Society for
Technology in Education (ISTE)

3d, 4a

NASA STEM Engagement

<https://nasa.gov/stem/nextgenstem/index.html>