



NASA's Commercial Crew Program Virtual Reality 360 Tour

Boeing CST-100 Starliner

Video link: https://youtu.be/9rY_xecfMyc

Description

In Part 3 of NASA's Commercial Crew Program (CCP) Virtual Reality (VR) 360 Tour, a NASA STEM Engagement specialist gives students a closer look at the Boeing CST-100 Starliner. This immersive VR tour takes students inside the Commercial Crew and Cargo Processing Facility (C3PF) at Kennedy Space Center, where the Starliner is being built.



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.

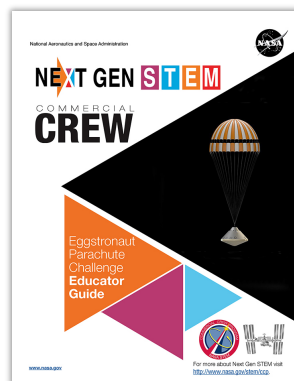
Follow this link to access the CCP virtual field trips:

<https://youtube.com/playlist?list=PLStC43yAV6zQvFdRe4ch2i8ihBuqTylJf>

Eggstronaut Parachute Challenge

Students use the engineering design process to construct, test, and analyze a prototype parachute designed to slow the descent of an egg and minimize the force of impact when landing, allowing the "eggstronaut" to land safely.

<https://nasa.gov/stem-ed-resources/eggstronaut-parachute-challenge-educator-guide.html>



Activity

Eggstronaut Parachute Challenge

Grades

K to 4, 5 to 8, 9 to 12

Duration

60 minutes

Subjects

- Engineering Design
- Force and Motion Physics

Standards

Next Generation STEM Science Standards (NGSS)

MS-ETS1

MS-PS2-2, MS-PS3-5

HS-PS2-3, HS-PS3-3

Common Core State Standards (CCSS) for Mathematics

5.G.A.2

6.G.A.1

7.G.B.6

8.F.B.5

MP4

International Society for Technology in Education (ISTE)

3d

4a

4c

4d

NASA STEM

Engagement

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