MINECRAFT & SCIENCE EXPLORING THE INTERNATIONAL SPACE STATION

VERSION 1.0

Lesson 1

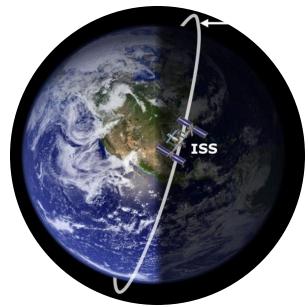
The International Space Station



THE INTERNATIONAL SPACE STATION (ISS)

- How long do you think humans has been living in space?
 - > Humans have been living in space for about 20 years.
 - The International Space Station (ISS) has been continuously occupied since November 2000.
- What is the International Space Station (ISS)?
 - > The ISS is a modular space station in low Earth orbit.
- How often does the ISS orbit the Earth?
 - > It orbits Earth every 90 minutes





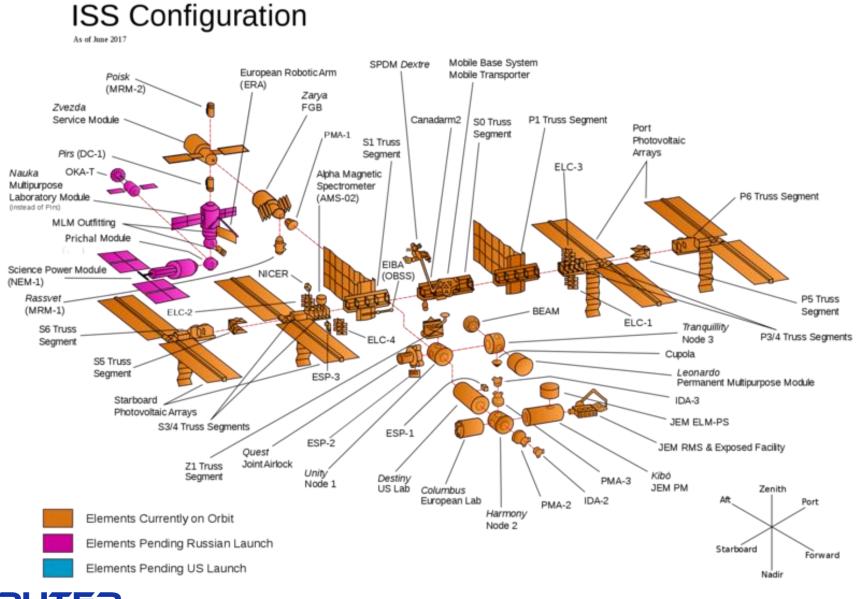


THE MODULES OF THE ISS

- Russian Modules
 - > Pirs
 - > Zvezda
 - ≻ Poisk
 - ➤ Rassvet
- Japanese
 - > JEM-ELM-PS
 - > JEM-PM
- European
 - > Columbus

- United States Modules
 - ≻ Zarya
 - > BEAM
 - > Leonardo
 - ➤ Harmony
 - > Quest
 - ➤ Tranquility
 - > Unity
 - ➤ Cupola
 - Destiny







WHAT IS IN THE ISS?

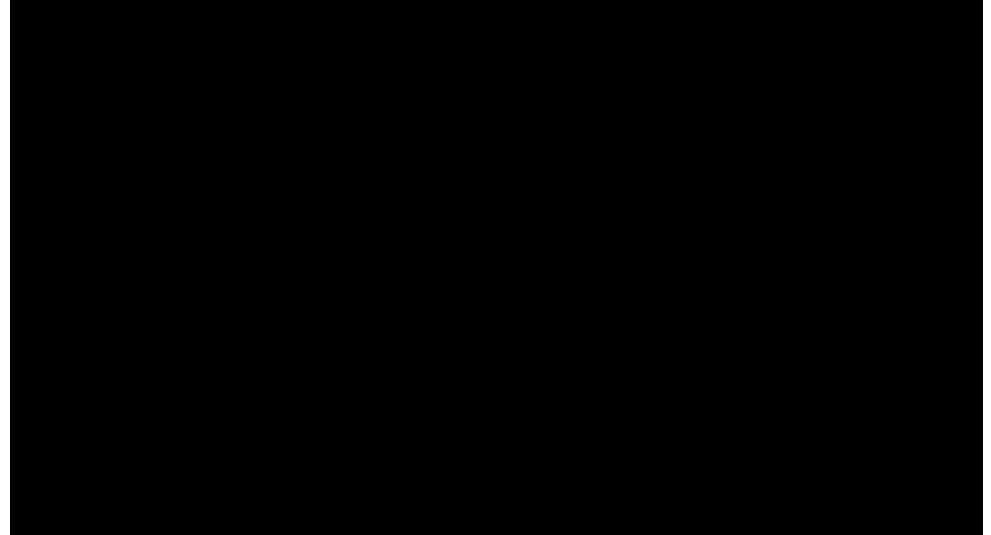
- Sleeping quarters
- Kitchen
- Bathrooms
- Gym
- Laboratories for experiments.
- Researchers from 103 countries have conducted thousands of experiments on the ISS.







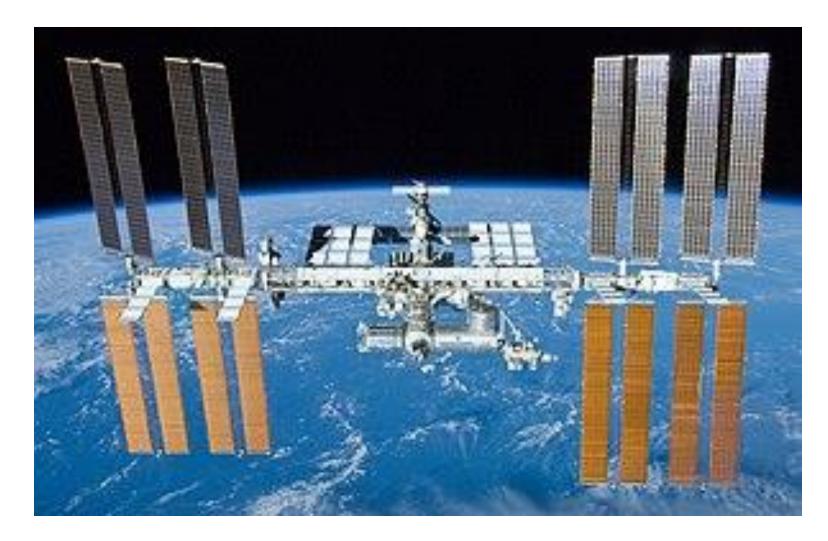
VIDEO TOUR OF THE ISS





VIDEO DISCUSSION

- What is your favorite part of the video?
- Why is it your favorite?
- What did you learn that you did not know before?
- Why is this important?





EXPLORING THE ISS

- Join the Minecraft world *ISS Minecraft Challenge.mcworld* hosted by the teacher.
- Explore the ISS and take notes on how it is built.
- Go on a scavenger hunt for:
 - > Airlock
 - ➤ Cupola
 - ➤ Hatch
 - > Laboratories
 - > Main Hallway
 - Sleeping Quarters



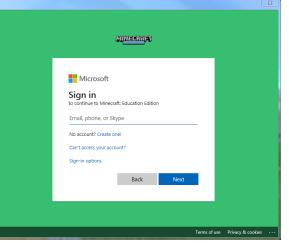




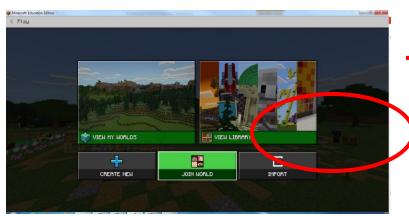


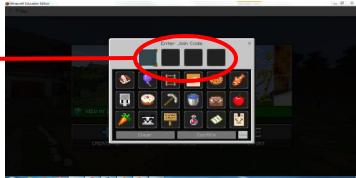
JOINING

- Sign in to Minecraft.
- Click *Play*.
- Click Join World.
- Enter the *Join Code*.
- Click *Confirm*.













STUDENT ACTIVITY 1 – JOIN CA BORDER WORLD

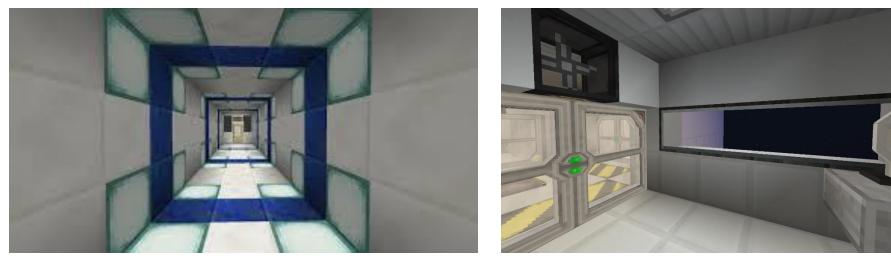
- Teachers will give students a number
- Join the Minecraft world the teacher hosts
- Go to the area with the number you have been assigned.





STUDENT ACTIVITY 2 – MAIN HALLWAY

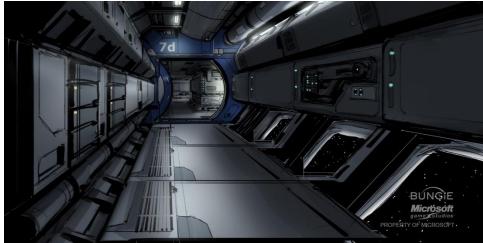
- Build the main hallway of your space station in Minecraft.
- Build your space station at least 50 blocks in the air above the ground.
- The corridor must be at least 3 blocks wide and 3 blocks high.
- This should be at least 45 blocks long.



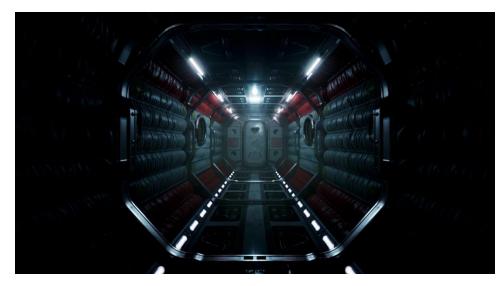


MAIN HALLWAY IDEAS











STUDENT ACTIVITY 3 – MODULES

- Design and build the modules for your space station in Minecraft.
- Modules include:
 - > Kitchen
 - ≻ Gym
 - Sleeping quarters









END OF LESSON 1

