

MINECRAFT & SCIENCE

EXPLORING THE INTERNATIONAL SPACE STATION

VERSION 1.0

Lesson 6

Invisible Forces at Work

MAGNETISM

- What is a magnet?
 - An object or device that produces an area of force called a magnetic field.
- What happens when you keep a magnet suspended in air?
 - It would rest in the not south direction.
- What happens when you put the same poles near each other?
- What happens when you put opposite poles near each other?
 - Same sides will repel, opposites will attract and stick.



GRAVITY

- How are magnetism and gravity alike? How are they different?
 - They are both forces that effect and move objects.
 - Gravity is the force between two objects with mass.
 - Magnetism is the force that can either pull or push them apart.
- How does gravity affect astronauts? Why do they feel weightless?
 - There is a higher gravitational pull in space.
 - They orbit Earth so fast and are technically falling sideways towards Earth.



SPACE JUNK

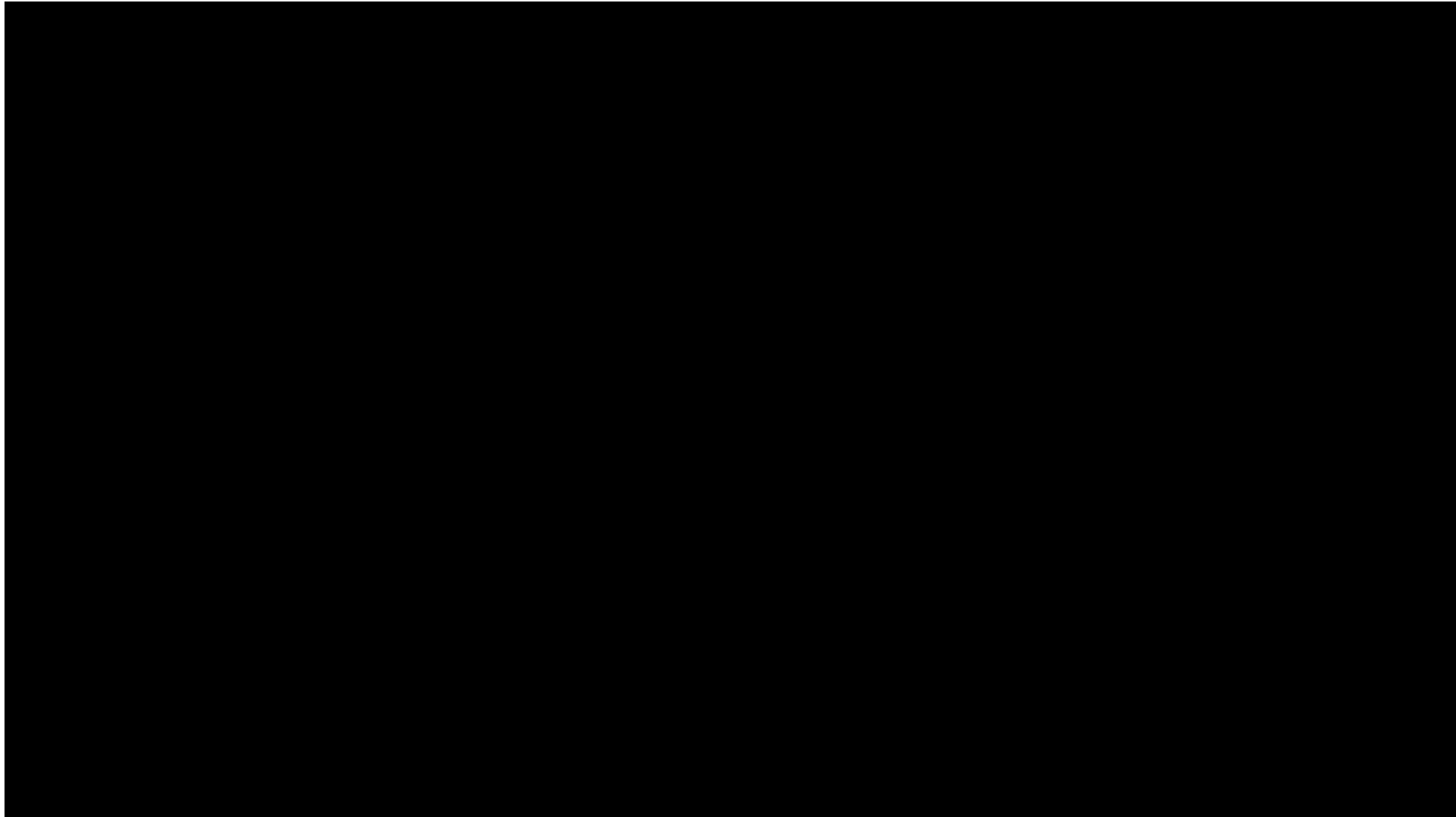
- Why is there so much “space junk” orbiting around the Earth?
- What are the risks of this “space junk” for the ISS and its astronauts?
 - “Space junk” is broken satellites and rocket debris.
 - This can cause debris to collide with satellites and the ISS.
 - This will also make space travel more dangerous.



MAGNETISM



WHY ARE ASTRONAUTS WEIGHTLESS?

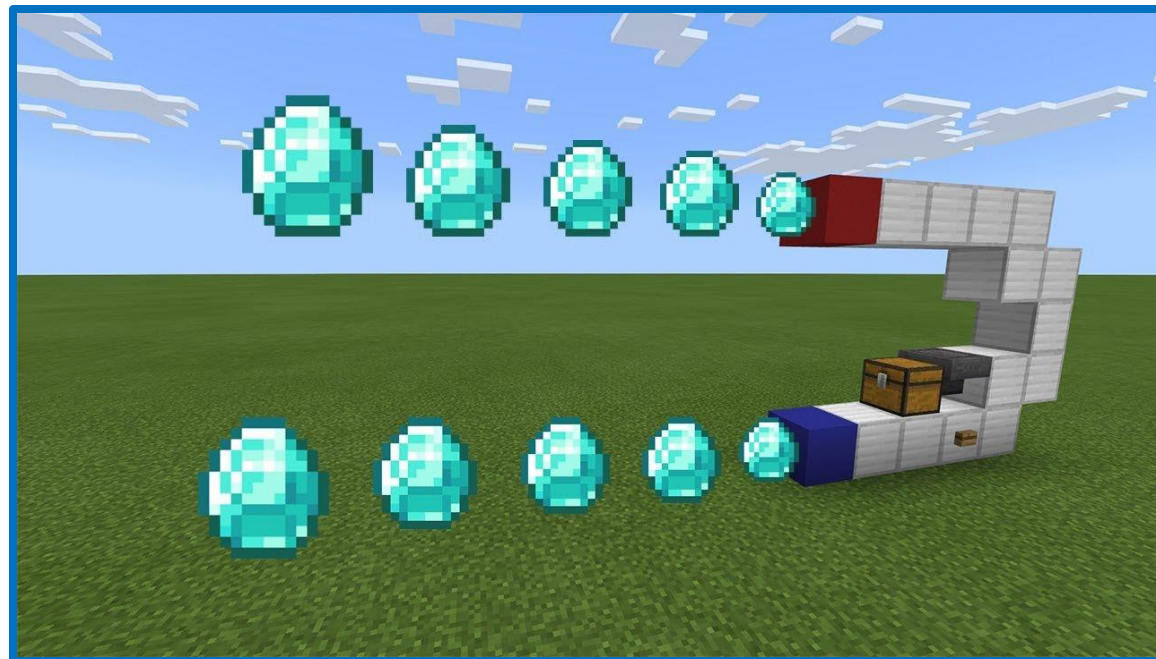


SPACE JUNK



STUDENT ACTIVITY

- Create a magnet invention to help with the “Space Junk” problem.
- Your creation must be created aboard your space station.
- Plan out your invention before starting to build.
- Use signs and chalkboards to explain anything about your creation.



END OF LESSON 6