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What is Astronauts

Astronauts: The Brave Explorers of Space!

DEFINITION

Astronauts are trained professionals who travel into space to conduct research and exploration. They operate spacecraft and perform experiments in a weightless environment.

KEY CONCEPTS

Training

Astronauts undergo rigorous training, including physical fitness, technical skills, and survival tactics.

Spacecraft

Astronauts travel in spacecraft, which are specially designed vehicles for space travel.

Microgravity

In space, astronauts experience microgravity, which affects how they move and conduct experiments.

Extravehicular Activity (EVA)

EVA refers to activities astronauts perform outside their spacecraft, like repairs or experiments.

International Space Station (ISS)

The ISS is a space station where astronauts live and work, conducting scientific research.

EXAMPLES

- Astronauts conduct experiments on the ISS to study how plants grow in space.
- They perform spacewalks to fix equipment on the exterior of their spacecraft.
- Astronauts train in simulators to prepare for the challenges of space travel.

MEMORY TIPS

- ★ Remember 'A' for Astronauts and 'A' for Adventure in space!
- ★ Use the acronym T-M-E (Training, Microgravity, EVA) to recall key astronaut concepts.
- ★ Think of the ISS as a 'home in the sky' for astronauts.

COMMON MISTAKES

- ✗ Confusing astronauts with cosmonauts, who are Russian space travelers.
- ✗ Overlooking the importance of training and preparation for space missions.
- ✗ Assuming all astronauts go to the moon; many work on the ISS instead.

QUICK RECAP

Astronauts are trained individuals who explore space and conduct experiments. They work in spacecraft and experience microgravity, often aboard the ISS. Remember their training and the unique environment they operate in!