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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 simulations of space missions.

Spacecraft

Astronauts travel in spacecraft, which are specially designed vehicles that can survive the harsh conditions of space.

Microgravity

In space, astronauts experience microgravity, which means they float instead of feeling heavy like on Earth.

Extravehicular Activity (EVA)

EVA refers to activities astronauts do outside their spacecraft, like repairing satellites or conducting experiments in space.

International Space Station (ISS)

The ISS is a large spacecraft where astronauts live and work, conducting scientific research in low Earth orbit.

EXAMPLES

→ Astronauts conduct experiments on the ISS.

→ They repair satellites in space during EVAs.

→ Astronauts train underwater to simulate space conditions.

MEMORY TIPS

★ Remember 'T-S-M-E-I' for Training, Spacecraft, Microgravity, EVA, and ISS.

★ Think of astronauts as 'space explorers' to recall their adventurous role.

★ Visualize floating objects to remember microgravity effects.

COMMON MISTAKES

✗ Confusing astronauts with cosmonauts (they are the same but from different countries).

✗ Forgetting that not all astronauts go to the Moon; many work on the ISS.

✗ Assuming all astronauts are pilots; many have different scientific backgrounds.

QUICK RECAP

Astronauts are trained individuals who explore space and conduct experiments. They work in spacecraft, experience microgravity, and perform EVAs, often on the ISS. Remember their training and diverse roles in space exploration.