



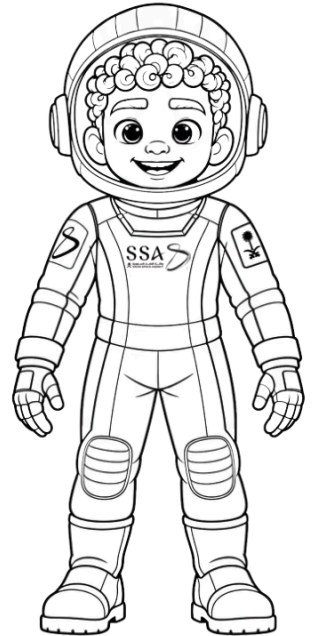
“Discover Space”

Your children’s journey toward knowledge
and exploration

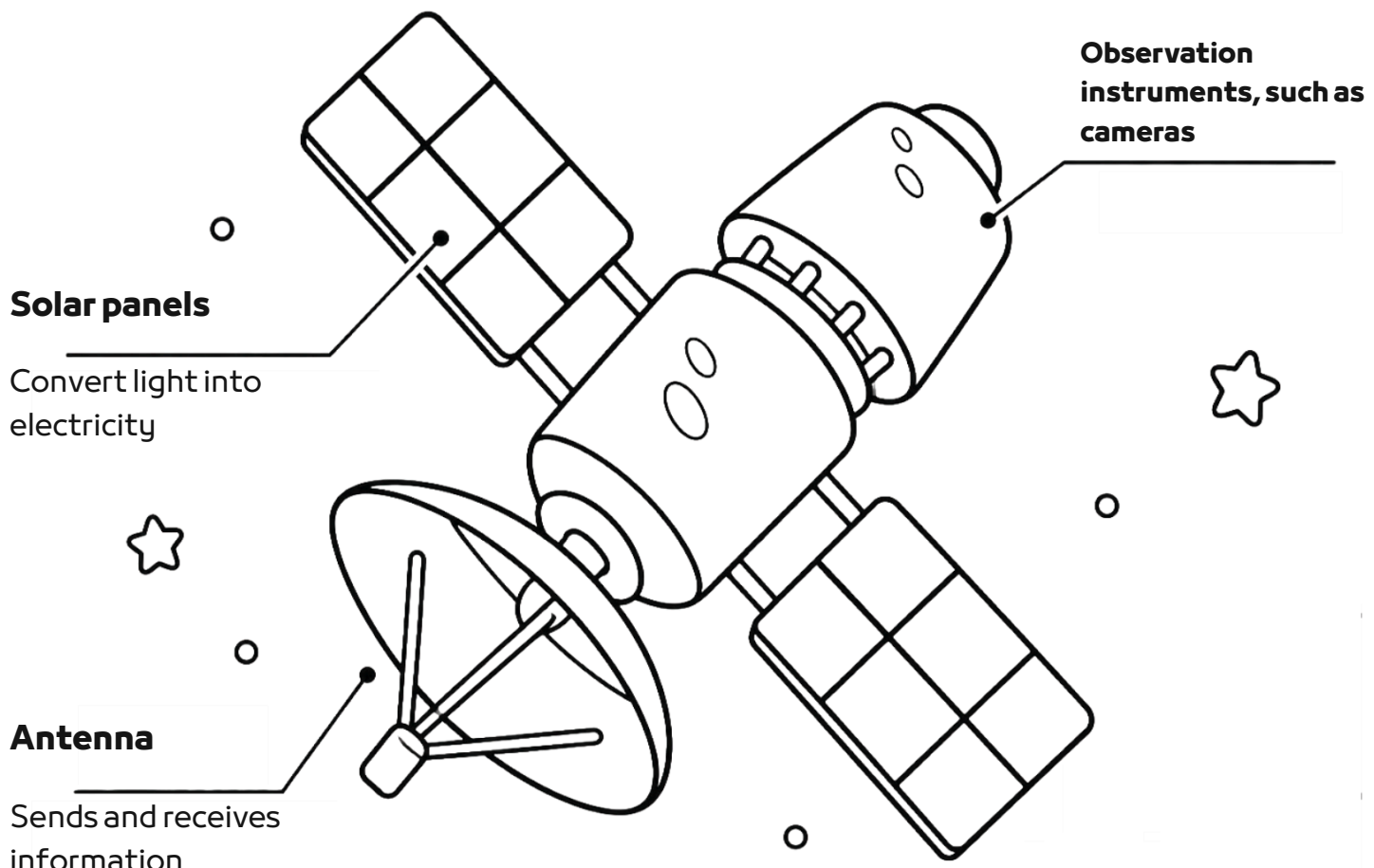
Name: _____

What is a satellite?

A human-made device that orbits Earth or another celestial body. It helps us with observation, communication, and navigation.



This is an example of an Earth-observation satellite



What is the International Space Station (ISS)?

A laboratory that orbits Earth, where astronauts live and conduct scientific experiments.

The station orbits Earth every 90 minutes at an altitude of about 400 km above Earth's surface and is used to conduct research in a microgravity environment.

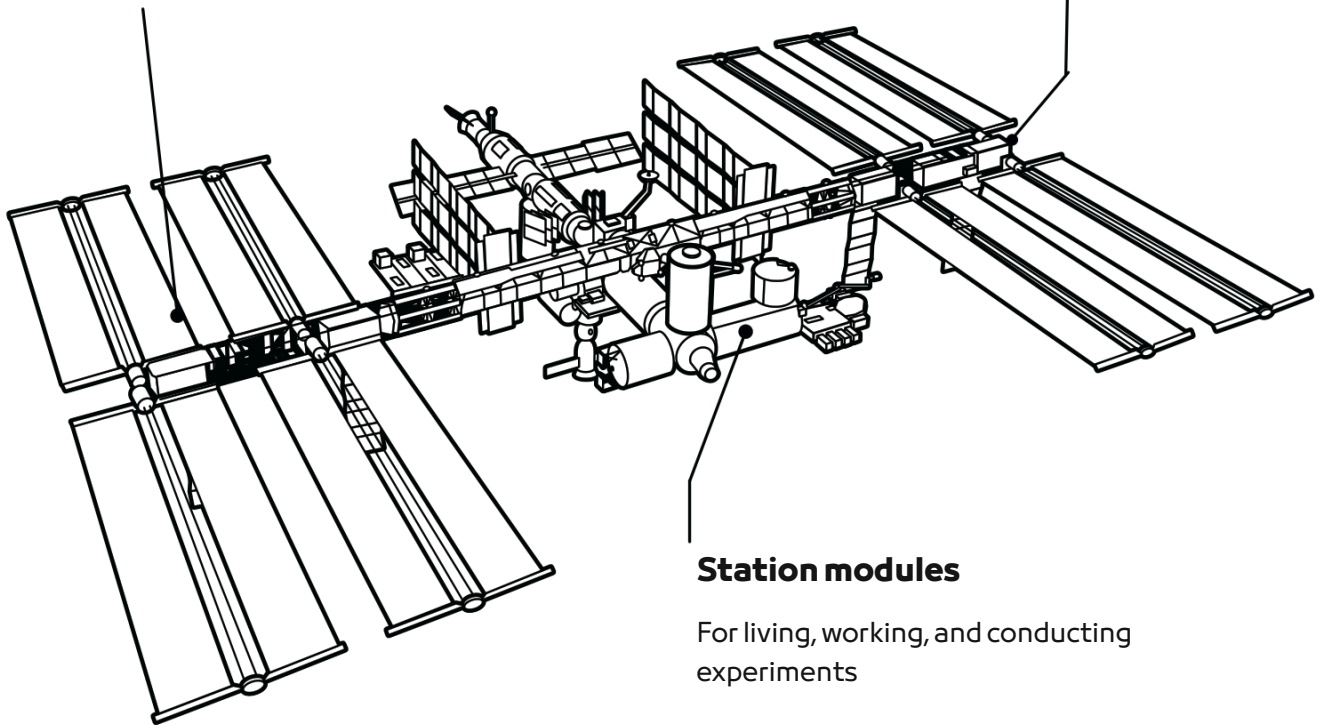


Connecting structure

Connects the station's sections and supports the solar panels

Solar panels

Convert sunlight into electricity



Station modules

For living, working, and conducting experiments

As part of Saudi Arabia's journey into space, Saudi astronauts Rayyanah Barnawi and Ali AlQarni reached the International Space Station and conducted 19 scientific experiments that contribute to scientific research and space exploration.

Draw the payload you want to send into space

Choose a mission for my payload, then draw it

- | | |
|--|--|
| ☐ Earth observation | ☐ Navigation |
| ☐ Weather monitoring | ☐ Research and exploration |
| ☐ Communications | ☐ Supply transport |



How Does a Spacesuit Protect Us?

A spacesuit provides astronauts with protection and the life-support systems needed to work safely outside a spacecraft.

It protects against radiation and micrometeoroid debris, provides breathable air and suitable body pressure, and includes an integrated thermal-control system.

Learn about the parts of a spacesuit, then connect each part to its correct location in the illustration.

Life-support system:

Provides oxygen, cools the body, and maintains humidity and internal pressure.

Protective layers:

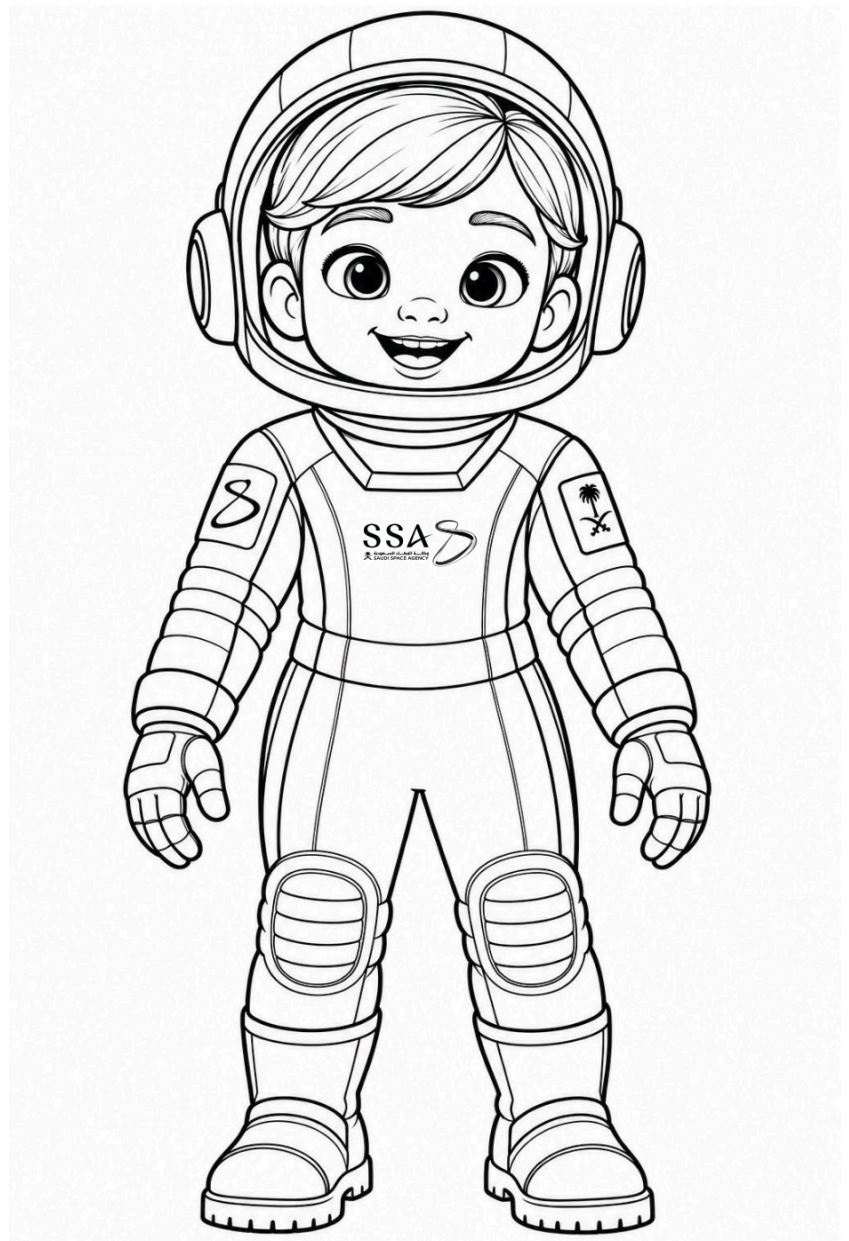
Prevent pressure loss and protect against small debris.

Communication system:

Allows the astronaut to communicate with colleagues and the station.

Gloves and helmet:

The gloves are carefully designed to provide flexibility and protection, while the helmet protects against harmful solar radiation.



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