Solar System Mini Mission

Explore, draw, test, and check what you found.



YOUR MISSION

Travel from the Sun to Mars. Put the planets in order. Test how a balloon rocket pushes. Then finish the check.

About ages 5–13. Ages 5–7 can circle and draw. Ages 8–13 can write the order. A grown-up stays for the balloon.

Four stops

- [ ] Meet the Sun, and do not look at it.
- [ ] Write the eight planets in order.
- [ ] Compare Earth, the Moon, and Mars.
- [ ] Test thrust with a balloon on a string, or write a prediction.

Eight planets orbit the Sun. Earth’s Moon is a moon. Pluto is a dwarf planet, not a ninth planet.

Meet the Sun

Our star sits at the centre of the Solar System.



THE SUN IS A STAR

Eight planets orbit the Sun. Earth is one of them. The Moon goes around Earth. It is not a planet.

GROWN-UP SAFETY

Never look straight at the Sun. Sunglasses are not enough. Do not point binoculars or a telescope at it.

Circle the star

- Sun
- Earth
- Moon

Draw one thing you already know about space.

DRAW HERE

Planet order

Start at the Sun and go outward.

Study this order. Then cover it with a hand or another sheet and write it from memory.

1 Mercury	2 Venus	3 Earth	4 Mars	5 Jupiter	6 Saturn	7 Uranus	8 Neptune

Write the eight planets without looking

1 _____

2 _____

3 _____

4 _____

5 _____

6 _____

7 _____

8 _____

Explorer bonus

Which planet would you most like to visit, and why? There is no wrong favourite.

_____

_____

Earth and the Moon

Two different worlds next door to each other.

EARTH

Air, oceans, and living things.

People live here.

THE MOON

No air to breathe. People walked there from 1969 to 1972. Nobody lives there.

A word to keep

A flyby means a spacecraft passes a world without landing on it.

Imagine you are looking back at Earth from the Moon. Draw what you see. Earth would look like a bright round world in a dark sky.

EARTH, FROM THE MOON

Mission Mars

Cold, dusty, and explored by robots.

- [ ] Cold and rusty red.
- [ ] Air too thin for a person to breathe.
- [ ] Robots work there.
- [ ] People do not live there.

Design a Mars explorer

Draw a robot that could explore Mars. Add wheels, cameras, or a tool arm. This is a drawing, not a machine you have to build.

MY ROBOT

My robot needs

- [ ] Camera
- [ ] Tool arm
- [ ] Wheels
- [ ] Something else, written below

Rocket thrust test

Try this with a grown-up, or just write what you think.

A rocket pushes gas one way. The rocket moves the other way. That push is called thrust.

You will need

A balloon, a straw, tape, and a piece of string about 3 metres long. If you cannot get them, you can still write a prediction.

GROWN-UP SAFETY

A grown-up helps. Do not let the balloon pop near your face. Do not put a balloon in your mouth. Pick up broken pieces. Never look at the Sun.

Before you let go

- [ ] I think it will move along the string.
- [ ] I think it will stay still.
- [ ] I think something else will happen.

What happened?

Draw what you saw. The air leaves one way. The balloon should go the other way.

WHAT I SAW

What did you discover?

Answer in your own words. Then look back if you want to.

1 **Is the Sun a star?**

Yes or no

2 **How many planets orbit the Sun?**

Write the number

3 **Should you ever look straight at the Sun?**

Yes or no

4 **Which planet did you design a robot for?**

Write its name

The most surprising thing I learned

OUR SPACE MISSION

Mission complete

Solar System Mini Mission

This explorer travelled from the Sun toward Mars, tried the planet order, and finished the mission check.

Explorer name, only if a grown-up says so

_____

Date _____

SOLAR SYSTEM SCOUT

This is an Our Space Mission activity certificate. It is not from a space agency. A name written here is not sent to the website.