Operation:	
Make it	



MAKE IT SERIES

ORBOT MISSION PLAN

Agent: _____









The Big Question: What do satellites do?







Mission: Objective

Build the technology we need in space!

Mission: Resources

Pg.1-2: Make it: Orbot Pg.3: Orbot cut out Pg 4: Australian Space Discovery Centre logo cut out

Images

Above: Base on Mars, Martian colony in desert landscape, on the red planet, 3d illustration.

Below: Trailblazer logo. Artist impression of Australia's vision for space exploration

Materials

- Printed black/white copy of the Orbot Template
- Printed colour copy of the Australian Space Discovery Centre logo
- Scissors
- Colouring pens/pencils
- Glue/tape

Construction

- Print out the Orbot template on page 3. (Optimised for A4 paper for easier folding but can be printed on other sizes).
- Print out the colour copy of the Australian Space Discovery Centre logo on page 4. (Optimised for A4 paper, but can be printed on other sizes).
- Cut out the templates. Make sure to cut around the outside lines (the ones in black) to remove the templates from the rest of the paper.
- Choose what special job Orbot will do as a satellite in space.
- Add some drawings to the template of things that will help Orbot do the job you have chosen for it.
- 6. Colour and decorate the orbit.
 The Orbot has lots of solar panels what colour should they be?

Make It:
Lunar Habitat
Activity:

Congratulations! You have been selected to build an Orbot.

Orbot is a satellite – a type of machine that goes around the Earth.

Satellites can do lots of different jobs. Some help humans on different parts of the Earth talk to each other. Some of us look at the Earth's environment. Some of us even look out into space to see far away stars.

Follow the mission instructions to help you complete the project.



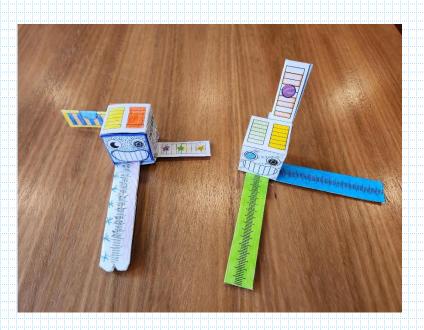


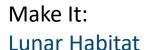
Construction

- 7. Fold the Orbot along the dotted lines to form a cube.
- 8. Stick the tabs down to secure the cube.
- 9. Stick the Australian Space Discovery Centre logos to the back of the antennae (the cut outs that look like measuring tapes).
- 10. Stick the antennae to the Orbot.

 Did you know that measuring tapes make good satellite antennas! We need antennas to talk to people on Earth using radio waves.
- 11. Optional: Create other pieces of equipment that will help the Orbot do its job in space.

 You can either draw them on the Orbot, or create more cut out pieces.
- 12. Optional: Attach the other pieces of equipment that you created to the Orbot.





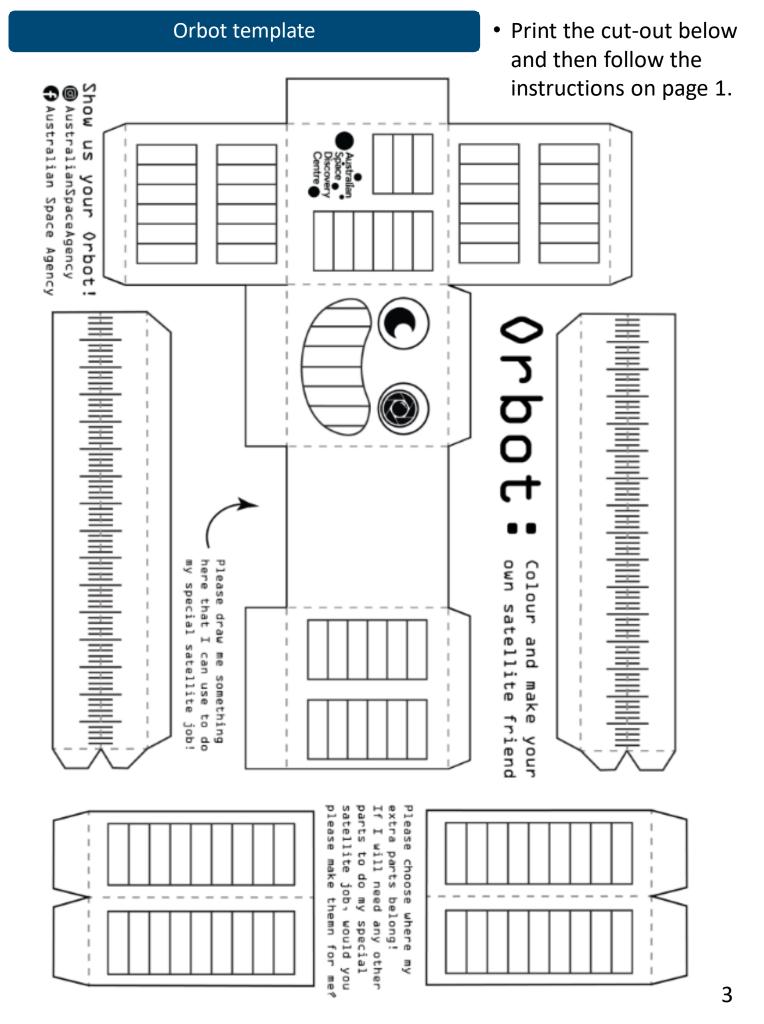
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Learn more about satellites here:

https://www.nasa.gov/learning-resources/for-kids-and-students/what-is-a-satellitegrades-k-4/







Australian Space Discovery Centre logo

 Print the cut-out below and then follow the instructions on page 1.

