



Build your own International Space Station!

You will need:

- ✓ scissors
- ✓ craft glue
- ✓ sticky tape
- ✓ pencil
- ✓ International Space Station model (www.csiro.au/iss)
- ✓ patience! (a lot of it, and perhaps an adult helper)
- ✓ thread

Key

-  The name of each piece
-  Cut along the yellow line
-  Fold inward along the dotted line
-  Fold in a zigzag motion
-  Tabs for gluing are printed with a cross-hatched pattern
-  Match the red letters and glue them together to attach each module.
-  Match the orange symbols and glue them on top of each other to attach the solar panels and airlock.

Instructions

Hints

- Write each piece's name on the back of the piece.
- Before you begin cutting, glance through the instructions.
- Keep referring to the picture of the finished ISS.

Cut out and build each piece

- Use scissors to cut out each piece following the inside of the yellow line.
- Fold the tabs in along the dotted lines with colour facing out (except for the solar panels where the tabs are folded out to make a 'T' shape).

Modules

- There are four modules: the JLM, Columbus, KIBO and the main body module. They are cylinders and are all built the same way. Roll each piece to make a tube and join the edges together with glue on the long tabs. (Tip: use your pencil in the tube to offer some support when gluing.)
- Then, glue the circles at both ends to the small triangle tabs to close the tube.

Truss sections

- There are three truss sections: right truss, left truss and Z1. They are box-like.
- Z1 is a cube. Glue the tabs to create the cube.
- Glue the tabs on each long truss section to create two rectangular boxes.

Small solar panels

- There are four pieces that make up the small solar panels.
- Glue a blue piece to an orange piece back-to-back, so that they line up and the colour appears on the outside. Don't glue the grey tabs together. Repeat for the other pair.

Cross solar panel

- Glue the cross-shaped solar panel pieces together back-to-back, so that they line up and the colour appears on the outside.

Radiator panels

- The radiator panels need to be folded so that they end up appearing zigzag in formation. Fold on the orange and black dotted lines. Fold the section marked ▲ in first so that the coloured sides are together.

Large solar panels

- Fold these in the middle (on the grey line) and glue together. Don't glue the grey tabs together. Only add glue to the very edges of the panels; extra glue will make the solar panels too heavy.

Shuttle docking port

- Roll the piece into a cone shape.
- Add glue to the cross-hatched tab to join the cone together.
- Tabs with a P will be used later.

The airlock

- The airlock will be attached to the ISS as is.

Construct the ISS by gluing the pieces together

1. Glue the Columbus module to the main body module. Match the C on Columbus to the C on the main body module and glue them together.
2. Glue the KIBO module to the main body module. Match and glue the K on KIBO to the K on the main body module.
3. Glue the JLM module to the KIBO module, matching the J's in the same way.
4. Glue on the shuttle docking port by matching the P's on the tabs with the P on the main body module.
5. Glue the truss piece, Z1, to the main body module by matching the Z's.
6. Glue the blue side of the cross-shaped solar panel to the end of the main module where it says, 'glue cross solar panel here'.
7. Glue the two small solar panels to the main module by matching the ● symbols on top of each other.
8. Now join the left truss and right truss together. Glue the red and white squares labelled E to make one long truss. Make sure that you line up the colours: red with red, white with white.
9. Glue four large solar panels on each end of the truss by matching up the ● symbols on top of each other.
10. Glue the zigzag radiator panels on. Match the ▲ on each radiator panel to the ▲ on each side of the truss.
11. The truss attaches across the top of the main body module. Glue the F on the top of the module to the F on the bottom of the truss and the T on the truss to the T on the Z1 module.
12. Glue the blank side of the airlock to the ○ on the main body module. Line up the symbols.
13. You can now hang up your ISS using thread.

Your International Space Station is now complete! Congratulations!