

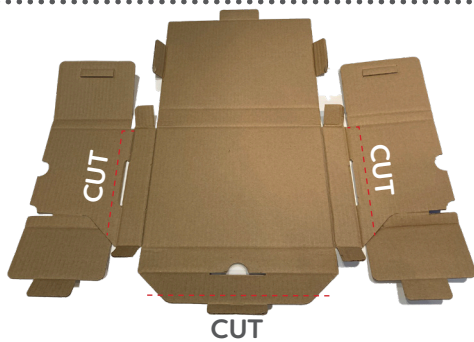
Instructions

Equipment

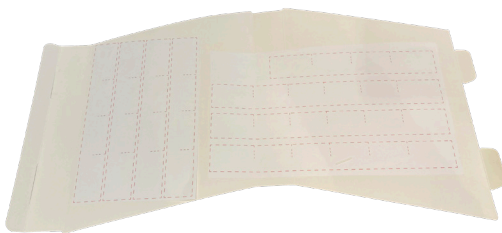
- Build Your Own Kit box and outer wrap or 2 cereal boxes of about A4 in size.
- Glue stick
- Scissors
- Sticky tape
- Printer and A4 sheets of paper

1. Print out all the sheets at 100% onto A4 printer paper

2. Take the brown part of the Build Your Own packaging box, open it up and cut along the red dashed lines shown below. You may need an adult to help you.



4. Glue pages 3 and 4 to the back of the outer wrap. Once the glue is dry cut out all the parts along the red dashed lines.



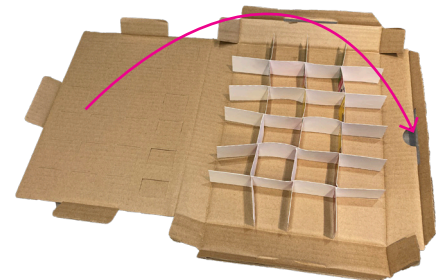
6. Cut out all the parts on pages 5 through to 10. Gently fold them and place each one in a different window of the Countdown Calendar.



3. Glue page 2 (with the numbered windows) onto the front of the box. Once it's dry, carefully cut along all the red dashed lines - you may need an adult to help here too.



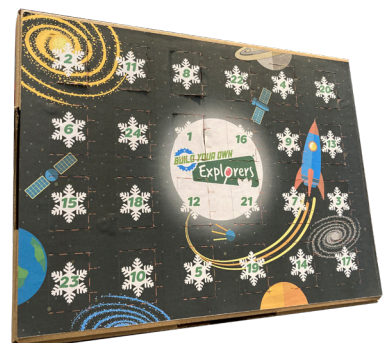
5. Slot all the parts together to make a grid. Then place the grid into the box and close the lid.

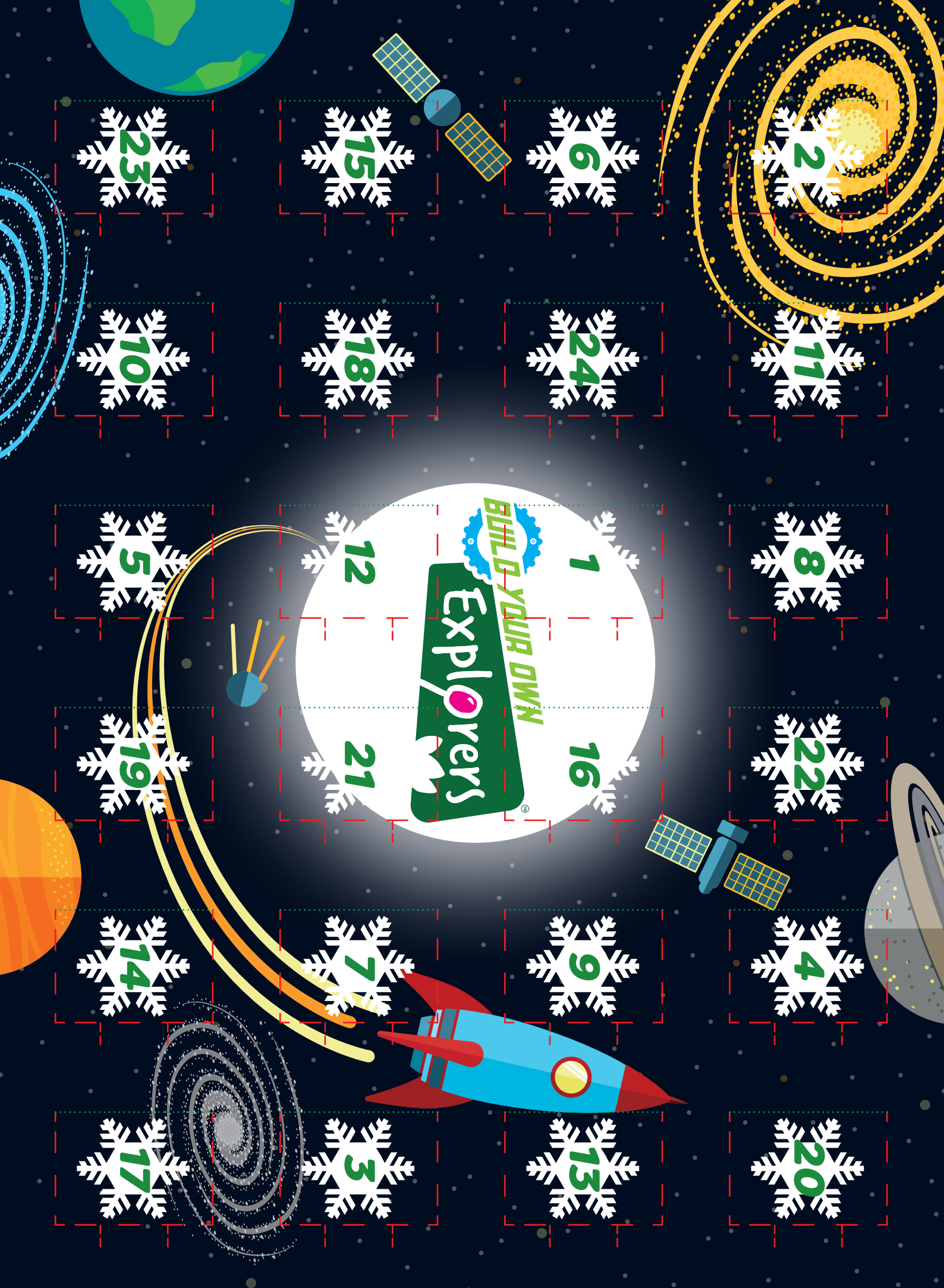


7. You're done!

Now all you need to do is open a window each day beginning on the 1st December and you'll slowly build you Solar System poster over the next 24 days.

Happy Christmas!



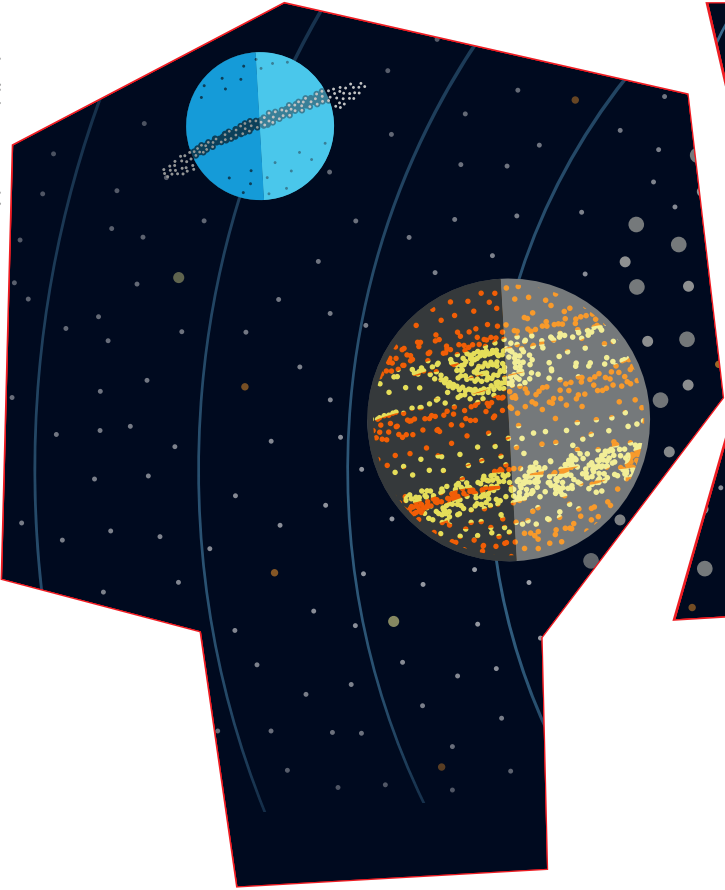




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Solar System

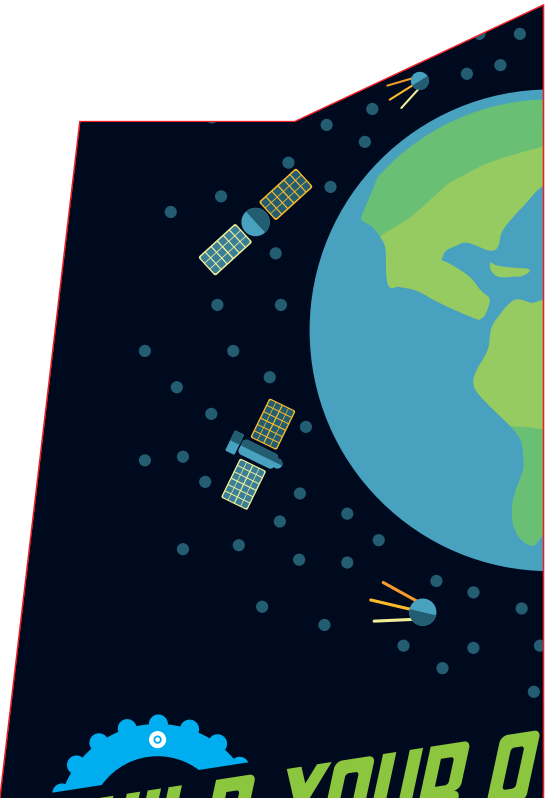
Our Solar System is made up of 8 planets and a Sun.



Space Junk

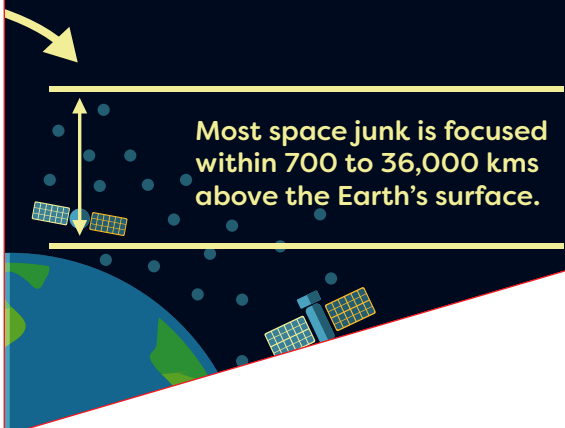
There about 8 million kilograms of space debris floating around in space. It's left over from rocket launches and when objects collide in space and break up in smaller pieces.

-  10cm and bigger - Over 34,000 pieces.
-  1-10 cm - Over 900,000 pieces.
-  Less than 1cm Over 128,000,000 pieces.
-  **28,968 km/h** Average debris speed around Earth's orbit.

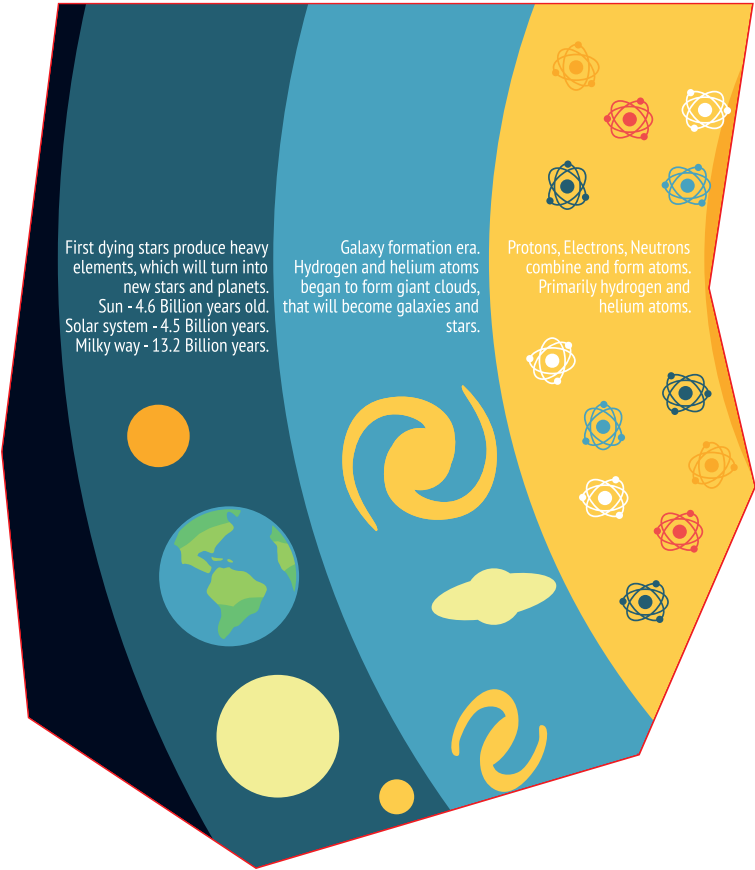


The Big Bang

The ‘big bang’ is how astronomers explain how the universe began. It is the idea that the universe started as just a single point, then expanded and stretched to grow as large as it is right now. It is also thought that it could still be stretching!



Most space junk is focused within 700 to 36,000 kms above the Earth's surface.



First dying stars produce heavy elements, which will turn into new stars and planets.
Sun - 4.6 Billion years old.
Solar system - 4.5 Billion years.
Milky way - 13.2 Billion years.

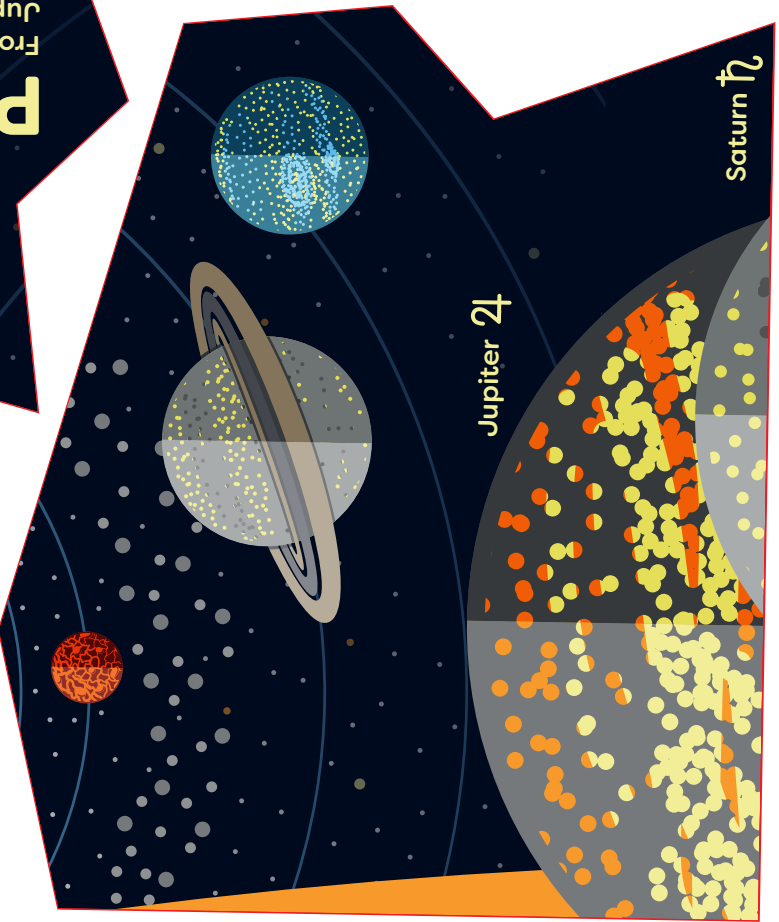
Galaxy formation era. Hydrogen and helium atoms began to form giant clouds, that will become galaxies and stars.

Protons, Electrons, Neutrons combine and form atoms. Primarily hydrogen and helium atoms.

Planet Sizes

Pluto is not classed as a planet. In 2006 it was reclassified as a 'Dwarf Planet'.

From tiny Mercury through to giant Jupiter with it's rings of ice, all the planets formed at different sizes. See how the size of our planet Earth compares to the others in the Solar System.

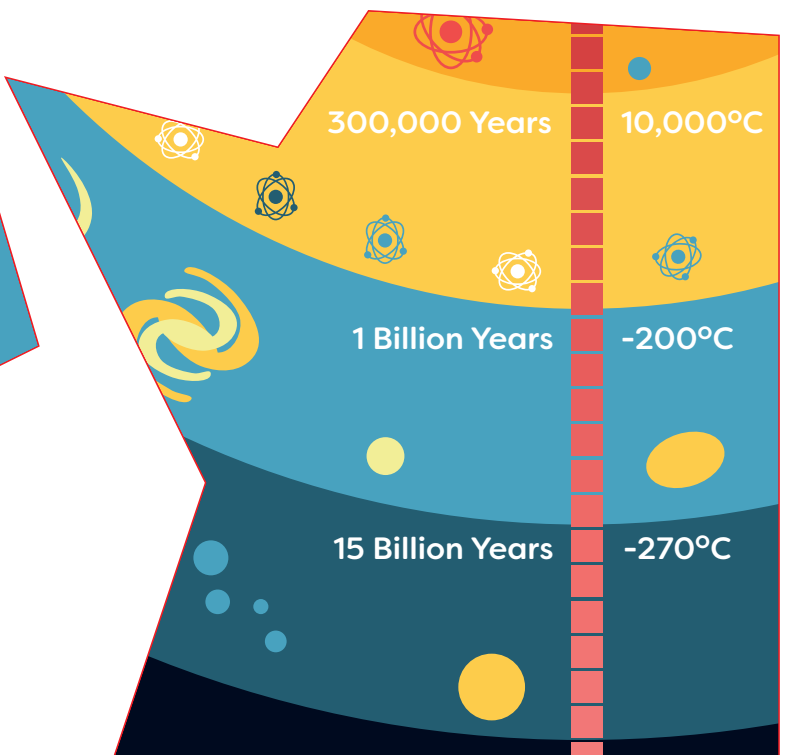
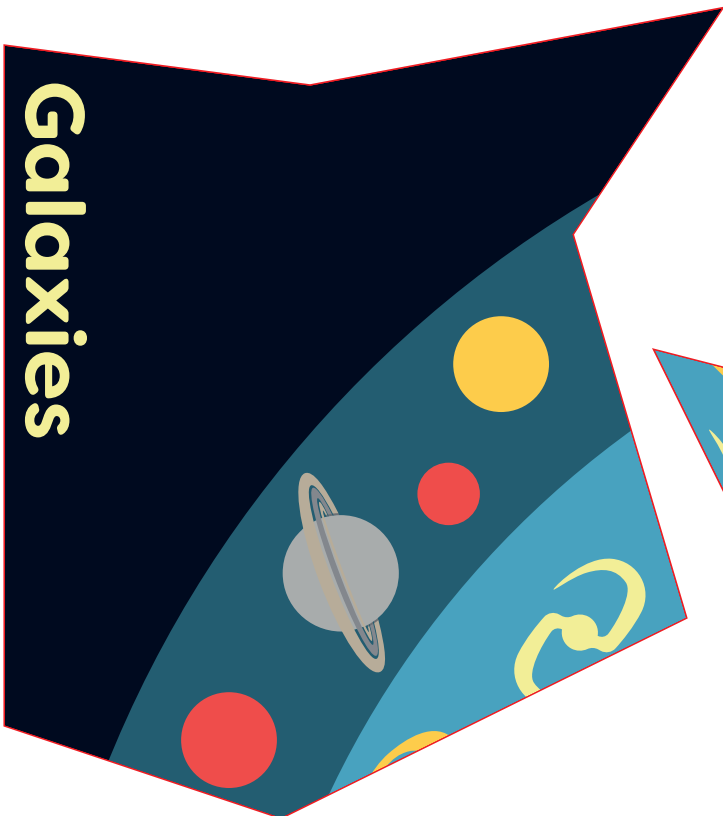


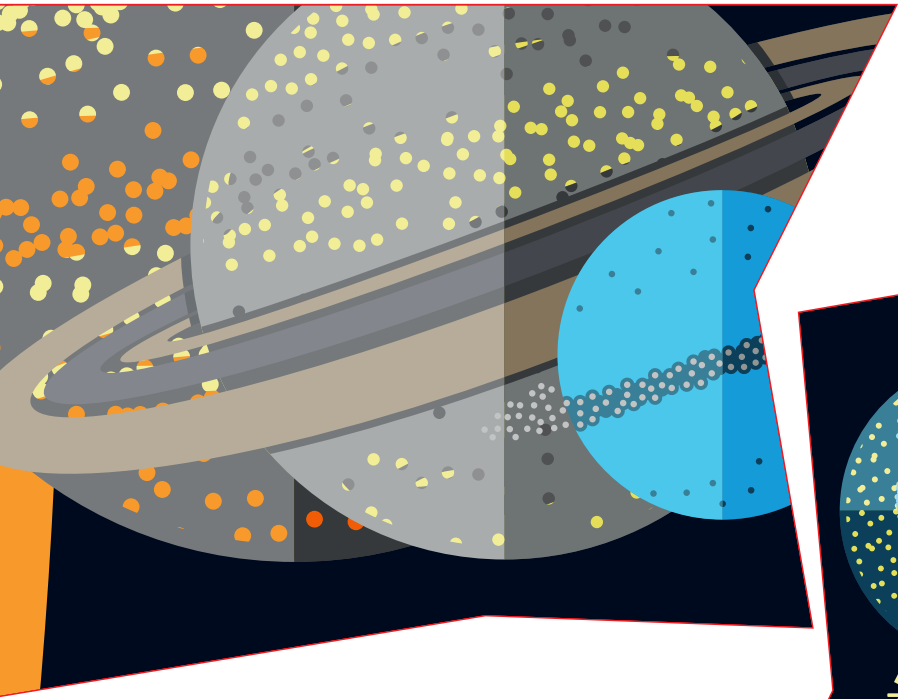
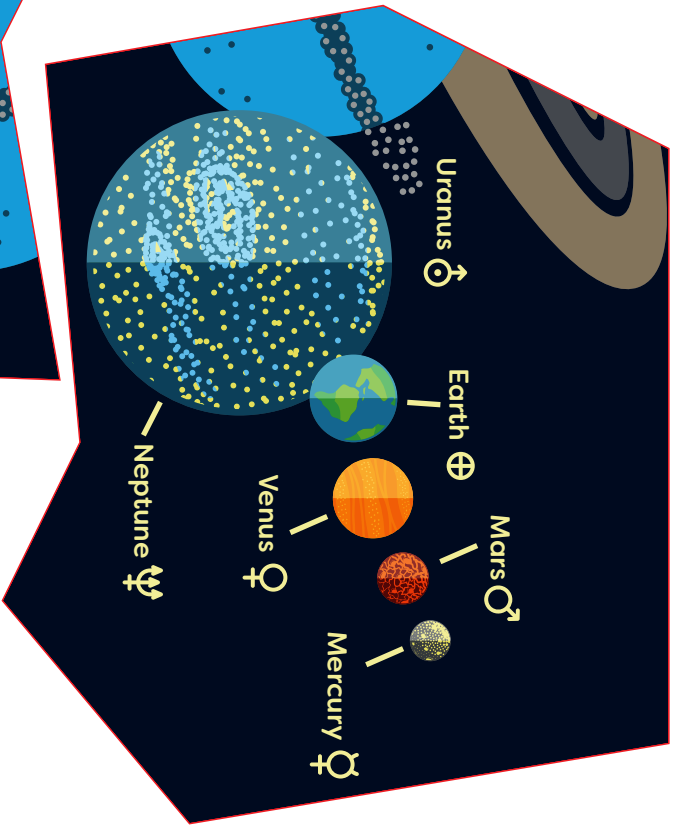
Jupiter 21

Saturn 12

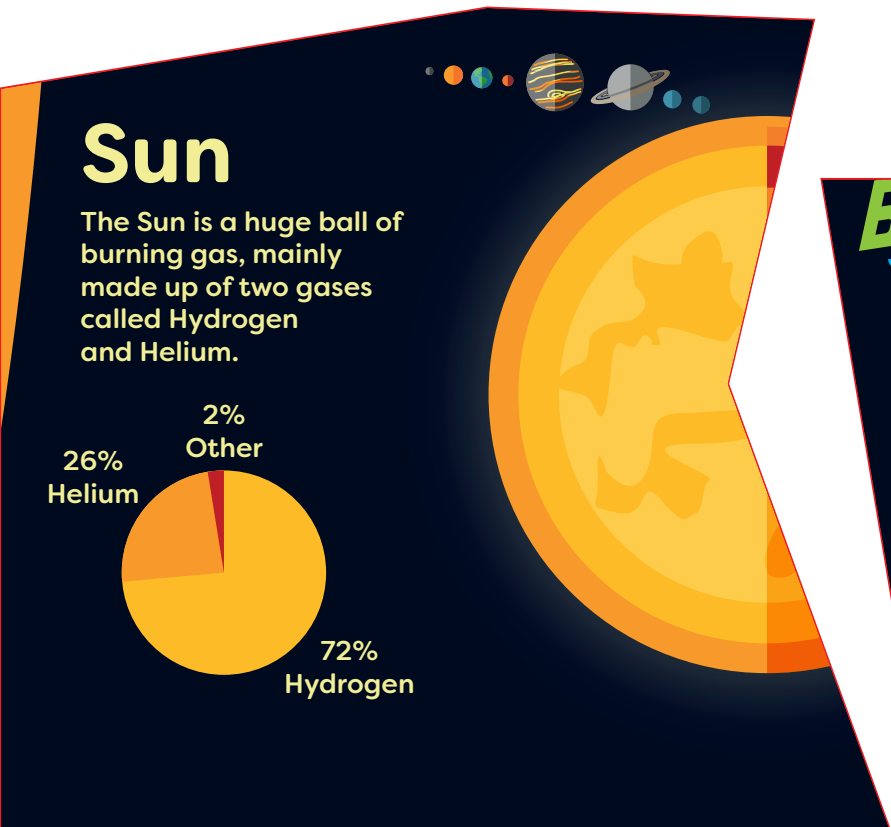


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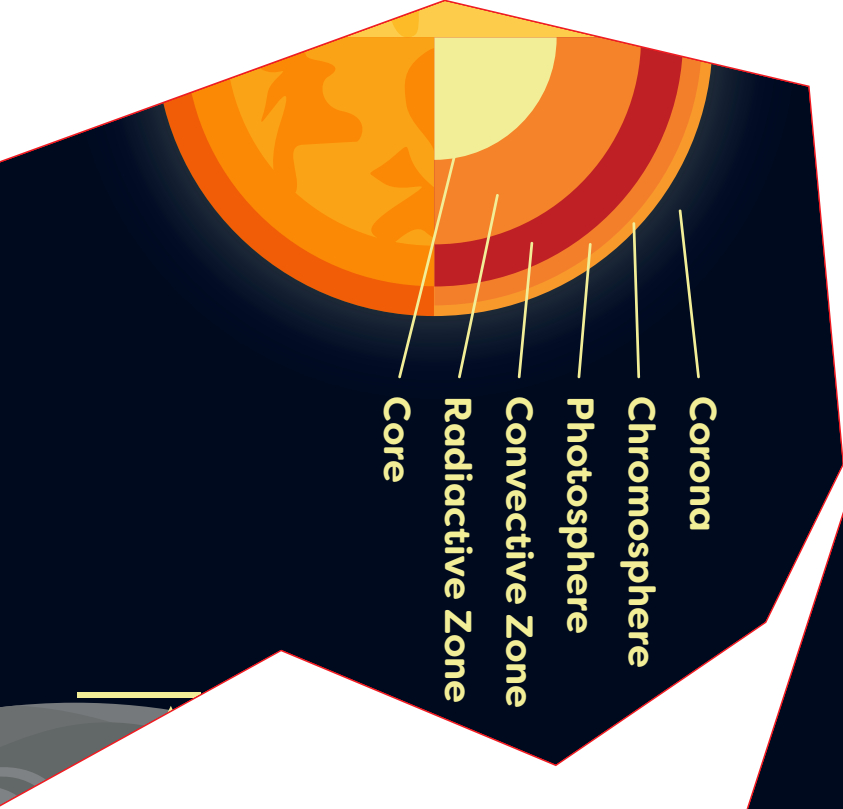
8



rotating around it which has an
tides and the length of our day.

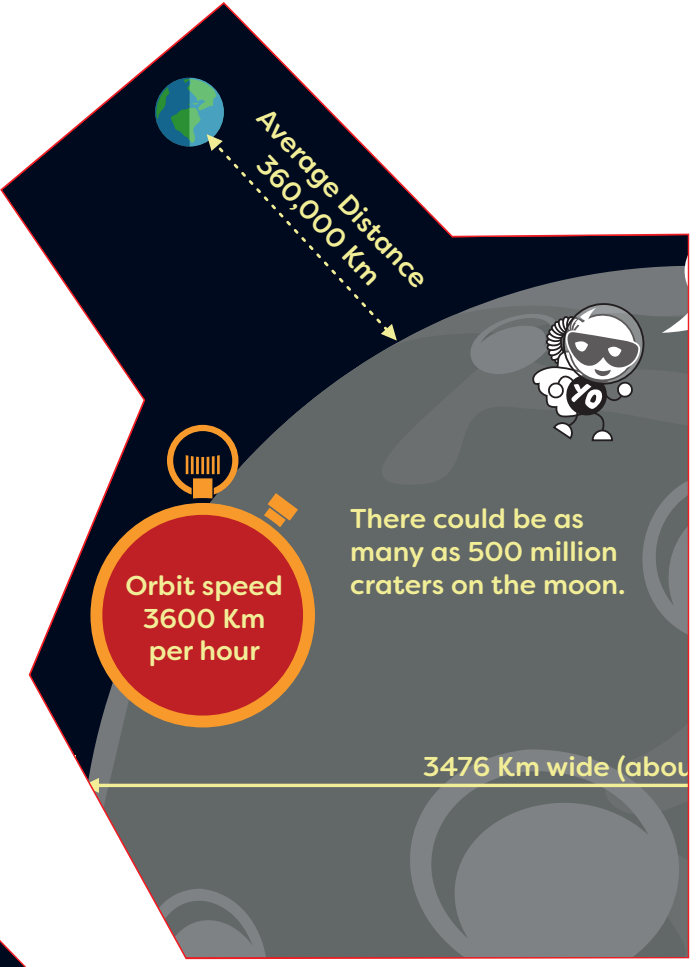


Corona
Chromosphere
Photosphere
Convective Zone
Radiative Zone
Core

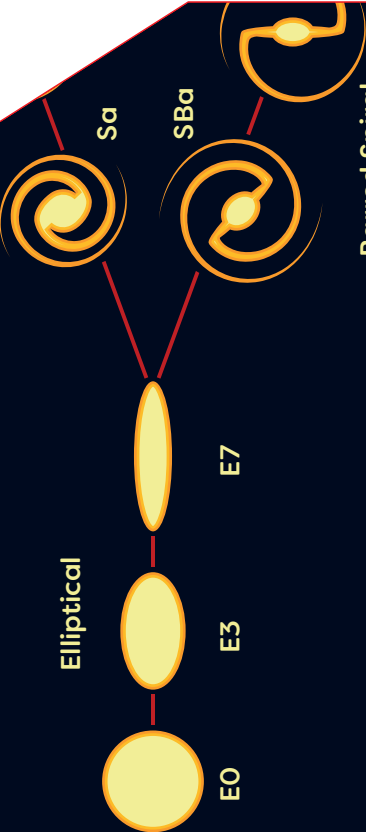


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There could be as
many as 500 million
craters on the moon.

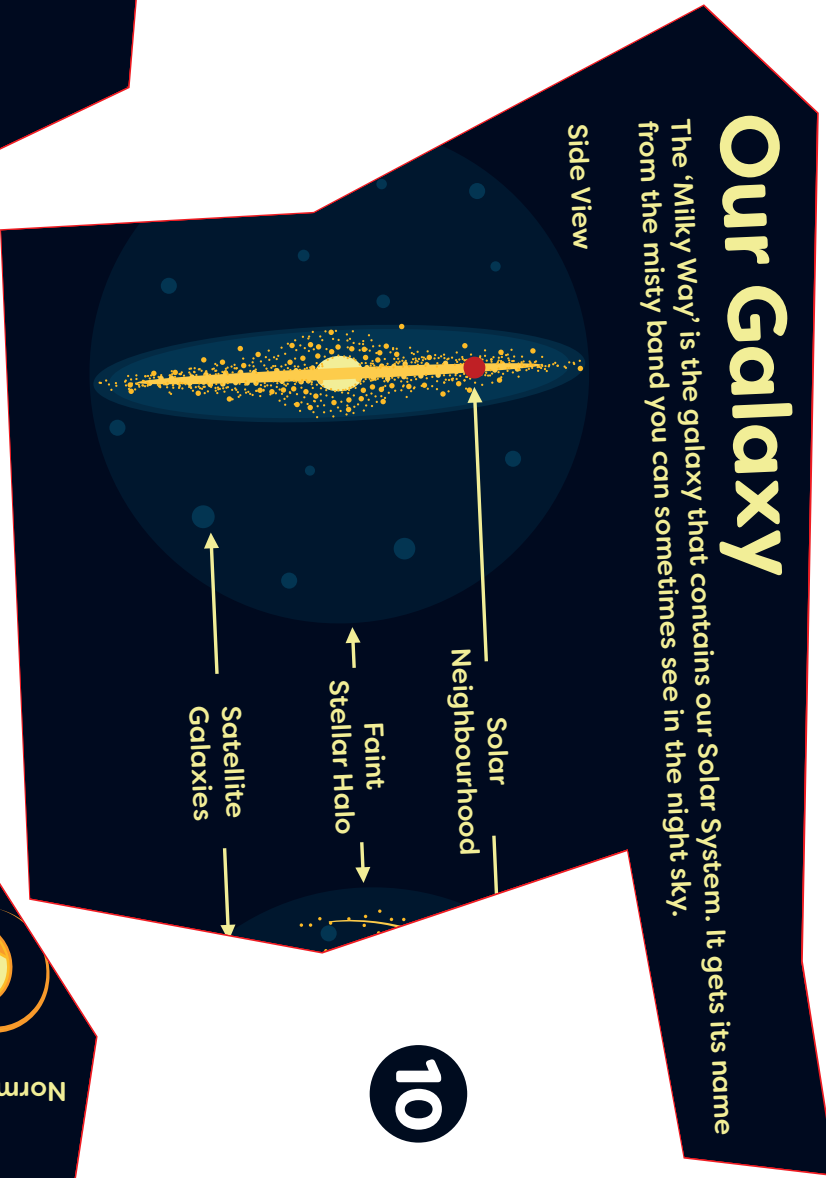
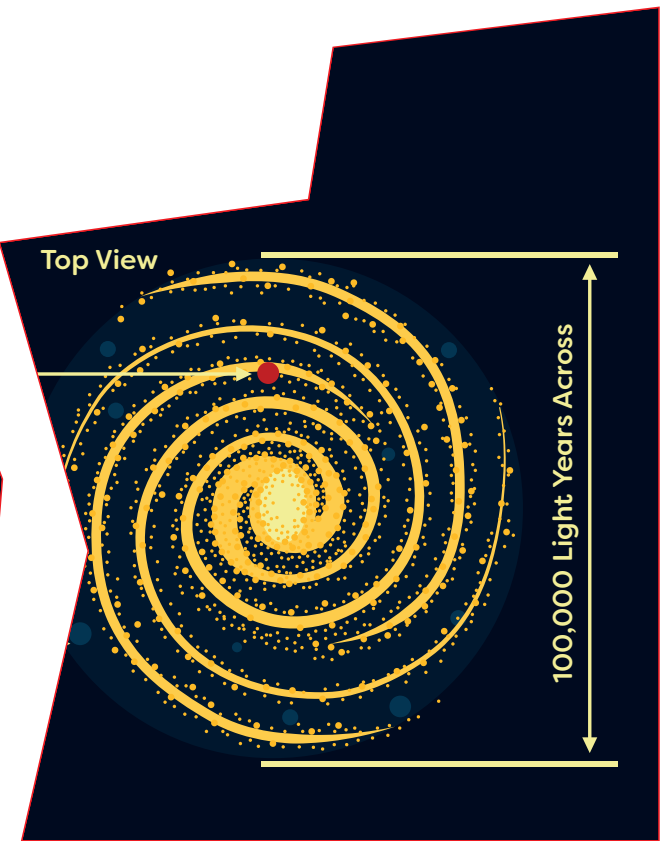


Barred Spiral



Classification

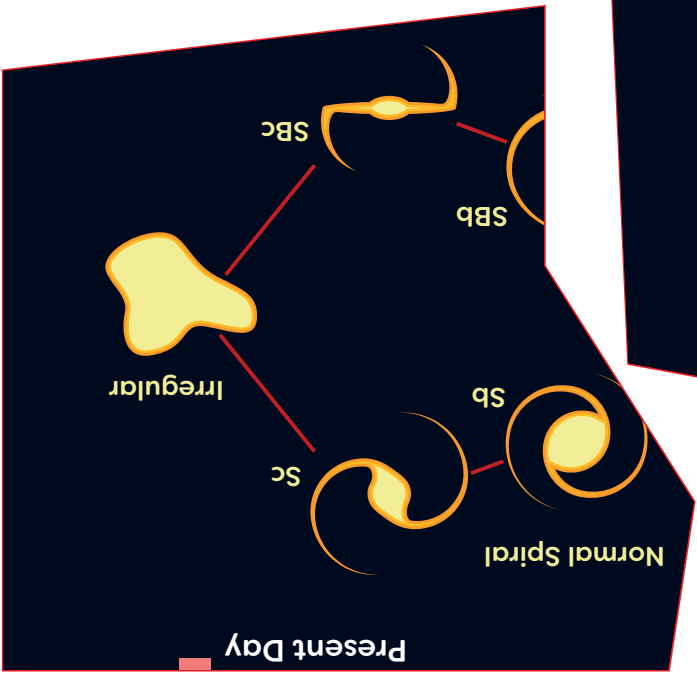
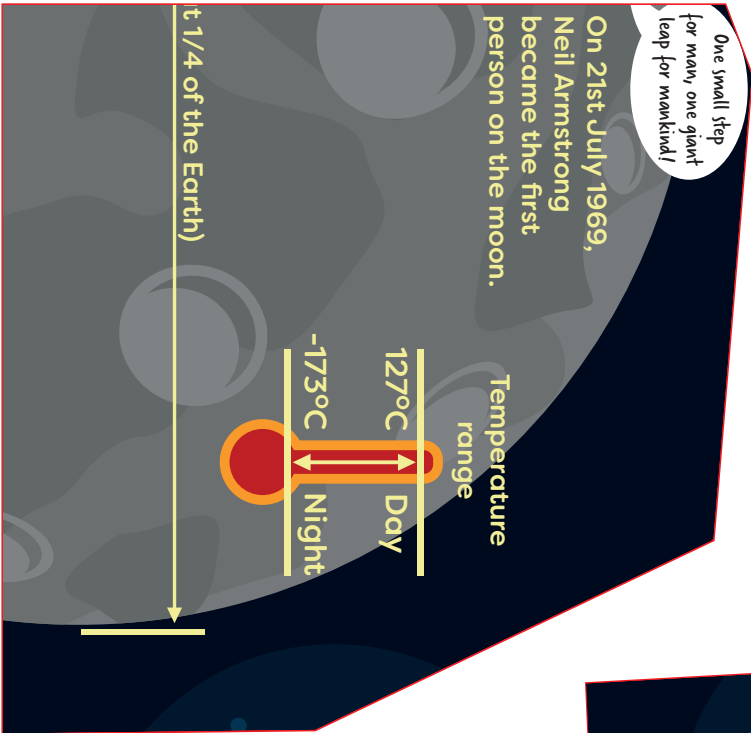
In the 1920's, Edwin Hubble studied the
formation of galaxies and set them out
in a diagram called a 'Tuning Fork'.



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Our Galaxy

The 'Milky Way' is the galaxy that contains our Solar System. It gets its name from the misty band you can sometimes see in the night sky.





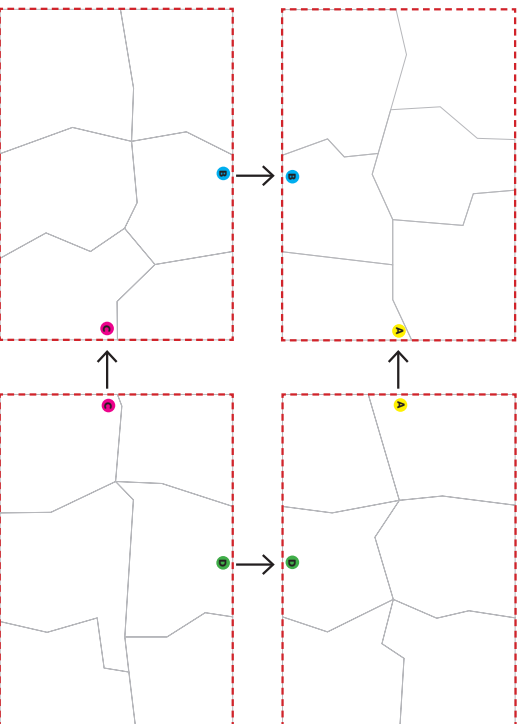
Poster Templates

Cut out pages 11 to 14 around the outer red dashed line ONLY.

Place the four rectangles on a flat surface so that each coloured letter is next to its corresponding one.

Then stick them together using sticky tape.

You can now use this as a guide to glue each piece of the poster in the correct place.



A

11

B

A

D

D

C

14