

STEAM ON!

GAZE AT THE STARS!

We're starting the week by looking further than the naked eye can see. Let's make a telescope to stare at distant stars.



For this project you'll need:

- Kitchen foil
- 2 cardboard tubes
- Some black card
- A tiny bit of sticky tack

Find two cardboard tubes of slightly different sizes. One should be able to slide inside the other. If you have two tubes the same size, you can cut down the length of one and tape it back together a little smaller.

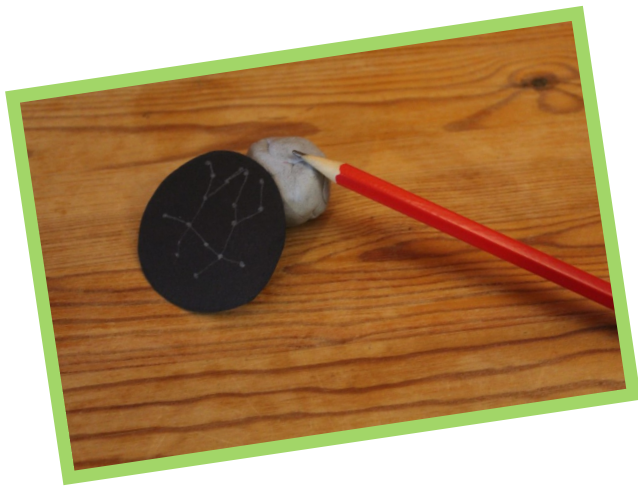


Draw around the end of your wider tube on some black card and cut it out.

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Now draw a constellation on your card. I have looked up the Gemini constellation but you can choose a different one or make up your own. Draw in the stars and then link them up like a dot-to-dot.



Your card should look something like this. You can make as many different cards as you like with different star patterns because this will be detachable.

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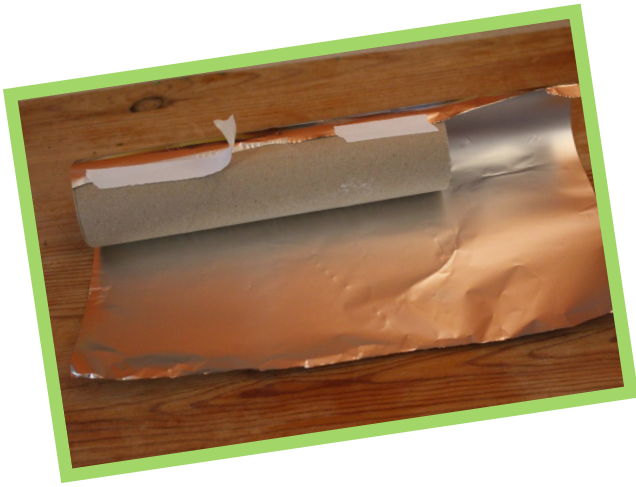
The black card should completely cover the end of your larger tube.



Now use a pencil and some sticky tack to carefully poke a small hole through each star.



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You could choose to use coloured paper instead of foil or you could decorate your tubes with pens or paint.



Now use a little bit of sticky tack to attach your constellation card.

Look into your telescope. What can you see?

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Now wrap each of your cardboard tubes tightly in foil. Use tape, ideally double sided to stick the edges down.



Slot the smaller tube into the larger one. You should be able to slide the tubes back and forth as if you are focusing your telescope.

