



## Activity 4

# THE SCIENCE BIT



**Thanks for helping me with my mission space curiosity challenge. I've been so impressed with all your hard work!**

I don't know about you, but I've learnt loads by looking at the sky. And there's so much more still to learn – here's a few more facts to excite you!

### HOW CAN WE OBSERVE SPACE?

Did you know that nautical telescopes are long and thin and have a magnifying glass at each end? You could use magnifying glasses, lenses from reading glasses or glass bottle bottoms in your telescope and by adjusting the distance between the two pieces of glass you can focus what you see.




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### CONSTELLATION STORIES

Early sailors often used the stars to find their way - using the North Star as a compass. In astronomy, the sky is partitioned into grids determined by the constellations. This enables astronomers to direct other scientists to areas of interest. For example, there is a nebula within Orion's Belt, named the Orion nebula.




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### HOW CAN THE SUN TELL THE TIME?

Building a sun dial shows us how shadows are cast when light comes from different directions. When the sun is in different positions, the shadows it casts can show us what time of day it is. Stonehenge is a great example of how ancient generations kept mathematically accurate calendars using just the sun.




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