

Stargazing -

Camp@Home2: The Jamboree
31st July to 2nd August 2020



One of the things we love about being on camp is staying up late and sitting outside underneath the stars. If it's not raining of course!

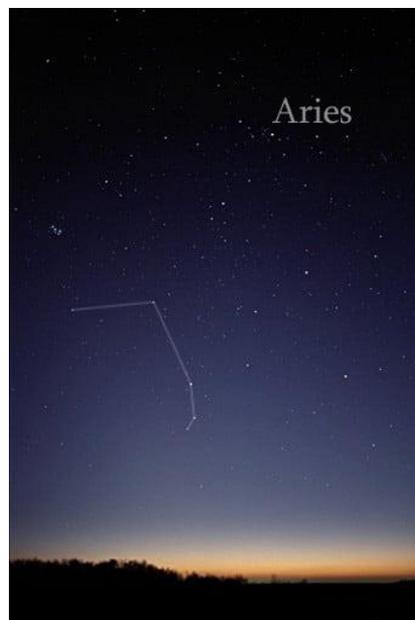
Spotting objects in the night sky

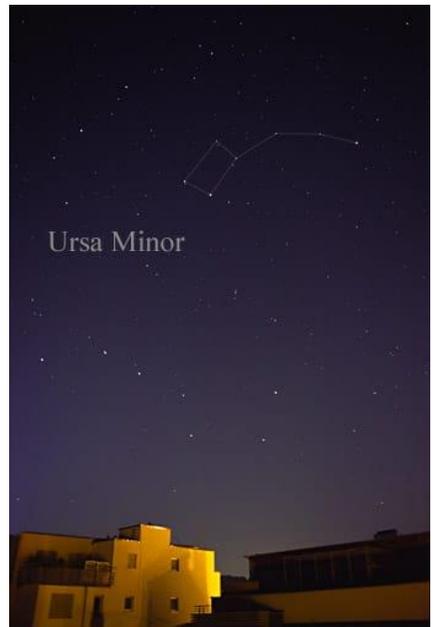
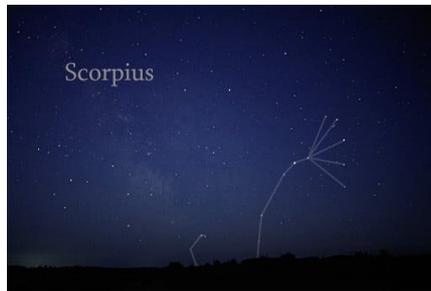
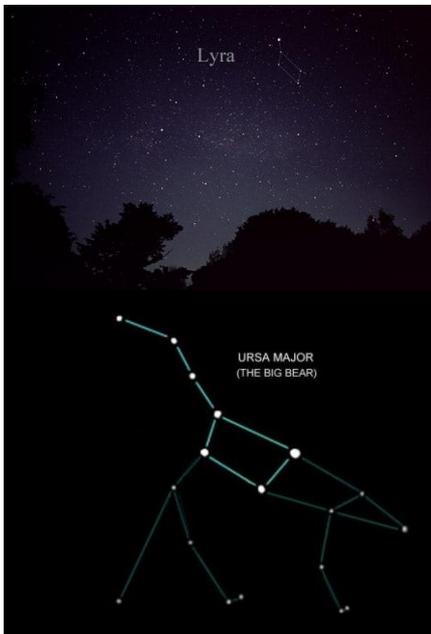
We've checked the forecast and there may be a little bit of cloud cover over Durham County – hopefully not too much so you can still take part!

Your challenge is to try and identify as many objects in the night sky as you can, and explain what they are

- Constellations – try and spot at least three!
- The moon - explain what it is and how it affects the tides
- A man-made satellite

Some constellations you might see





Let us know what you spot by posting in the [‘stargazing’ event](#) in the Facebook group!

What badges could I work towards?

(for Scouts in the United Kingdom)

	<p><u>Astronomer:</u></p> <ul style="list-style-type: none"> ✗ Make a model or draw a simple diagram of the solar system. ✗ Explain the difference between a planet and a star. ✗ Learn how to observe the sun safely. Find out and explain how the earth moves around the sun. ✓ Observe the moon, using binoculars or a telescope if you can. Describe some of its features. ✓ Identify three constellations. ✗ Find out about two space-related subjects and present some information about them. ✗ You could find out about planets, the history of space exploration or space technology.
	<p><u>Astronomer:</u></p>

- ✗ Show what you know about the night sky and why the pattern of stars changes, night by night, throughout the year.
- ✗ Learn the meaning of the terms celestial, equator, poles, circumpolar and zodiac.
- ✗ Build a model of the solar system using everyday materials found in the home, such as different size fruit or sports balls. Use an outside area to scale the solar system.
- ☑ Explain how the Moon affects the tides.
- ✗ Build a telescope from two cardboard tubes or two A4 pieces of black card, and lenses.
- ✗ Compare what you can see through a telescope and what you can see with the naked eye.
- ☑ Observe three constellations on a clear night and record what you saw.
- ✗ Read a star map using a compass and red light. Compare the differences between using a star map and a normal map.
- ☑ Learn how to identify a satellite. How do you tell it apart from an aeroplane, star, planet or a meteor?

Then complete these activities:

- a. ✗ identify a satellite to observe
- b. ✗ choose a clear night and use a clock and a compass to help you observe the satellite
- c. ✗ plan an evening with your Scout Group and teach others how to observe the satellite