**Space Level 1**

Do any four of the following:

1. Identify and explain two natural occurrences that happen in space, giving examples of each one

Group Leader

<http://io9.gizmodo.com/the-objects-in-space-that-we-really-really-cant-expla-1491923694>

1. Observe a satellite or ISS (International Space Station) and record the time of the sighting and its path across the sky

Group leader and Southern Astronomy Society

<http://www.heavens-above.com/?lat=-27.9206&lng=153.28291&loc=Maudsland&alt=0&tz=UCTm10>

1. Draw a diagram of our solar system showing the planets, their sizes and distances from the sun

Group Leader

<http://www.kean.edu/~fosborne/resources/ex11c2.htm>

1. Identify the Southern Cross and demonstrate how to find due south

Group Leader and Southern Astronomy Society

<https://museumvictoria.com.au/media/1876/using-the-southern-cross-to-find-south.pdf>

1. Visit a Planetarium or Observatory

Brisbane Planetarium Mt Cootha, Southern Astronomy Society

1. Make a pinhole Planetarium

Group leader with assistance Southern Astronomy Society

Photo copy both pieces using OHP film, and a split paper pin as pivot

<https://in-the-sky.org/planisphere/index.php?country=14&reg1=141&reg2=1545&town=320>

1. Observe and identify two planets

Southern Astronomy Society

**Space Level 2**

Do any five of the following:

1. Identify and explain three natural occurrences that happen in space, giving examples of each one

Group Leader with assistance of Southern Astronomy Society

<http://io9.gizmodo.com/the-objects-in-space-that-we-really-really-cant-expla-1491923694>

1. Explain the function of three different types of satellites and how we can communicate with them

Group leader with assistance Southern Astronomy Society

<http://satellites.spacesim.org/english/engineer/copy/>

<https://www.nasa.gov/directorates/heo/scan/communications/outreach/funfacts/txt_passive_active.html>

1. Draw or make a model of a space station or rocket and explain what its function is

<https://www.nasa.gov/pdf/616947main_Build_Station_Simulation.pdf>

Group Leader with assistance Southern Astronomy Society

1. Identify two constellations in the sky and describe them

Southern Astronomy Society

1. Research and present information on how people survive on a space mission

Group Leader with assistance from Southern Astronomy Society

<http://www.nasa.gov/audience/forstudents/k-4/home/F_Living_in_Space.html>

1. Explain what an eclipse is and what effort it has on the Earth

Group Leader with assistance of Southern Astronomy Society

<http://www.nasa.gov/audience/forstudents/5-8/features/nasa-knows/what-is-an-eclipse-58>

1. Explain the effort the Sun has on the Earth and its atmosphere

Group Leader with assistance Southern Astronomy Society

<http://www.windows2universe.org/sun/effect_on_earth.html>

1. Explain what moons are and how they affect the planets they belong to

Group Leader with assistance Southern Astronomy Society

<https://en.wikibooks.org/wiki/High_School_Earth_Science/The_Sun_and_the_Earth-Moon_System>

<http://www.space.com/55-earths-moon-formation-composition-and-orbit.html>