



# HOLMES CLASSROOMS

## YR 5 SPACE E-RESOURCE HANDOUT

**E-Resource:** Inquiry-Based Webquest

**Children's Literature Text:** How to be a Space Explorer by Mark Brake

### Overview and Purpose of E-Resource

This is a Inquiry-Based Webquest that follows Kath Murdoch's model. This resource is specifically focused on developing **Year 5's knowledge about space**. It is focused on students discovering more about the planets and their relationship with the sun. The Webquest is a self guided resource where students can follow instructions and complete the activities without the assistance of the teacher. The Webquest promotes cooperative work between students, and provides opportunities for them to engage with each other. It leads students to develop their understanding through inquiry and within a structured framework. It is both engaging and interactive for all students.

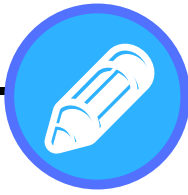


### Science Curriculum:

This Webquest is deeply imbedded within the science curriculum. It requires students to use their inquiry skills to fuel their research on the solar system. The first lesson mainly draws on students ability to recall what they already know about the topic.

### Australian Curriculum Links:

- The Earth is part of a system of planets orbiting around a star (the sun) (**ACSSU078**).
- With guidance, pose clarifying questions and make predictions about scientific investigations (**AC SIS231**).

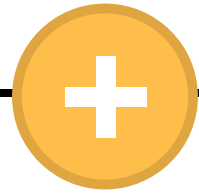


### English Curriculum:

The Webquest is integrated into the learning area of English as well. It introduces a new vocabulary and informative texts to students. It also provides students with the opportunity for students to analyse texts and create their own, through fiction or non-fiction formats.

### Australian Curriculum Links:

- Understand how texts vary in purpose, structure and topic (**ACELA1504**).
- Use comprehension strategies to analyse information, linking ideas from a variety of print and digital sources (**ACELY1703**).



### Mathematics Curriculum:

The Webquest is also integrated into mathematics as students compare the sizes of planets using scaled examples. Students will need to recreate planet sizes and distances in relation to each other. This touches on geometry and spacial reasoning.

### Australian Curriculum Links:

- Apply the enlargement transformation to familiar shapes and explore the properties of the resulting image compared with the original (**ACMMG115**).
- Choose appropriate units of measurement (**ACMMG108**).

### Implementation into the Classroom

This resource is meant to be used as an aid and not a replacement for teaching. Fundamentally it holds all the content for the science understandings to be taught to students. But teachers need to ensure that they are using formative assessment to keep students on track, and summative assessment of the final two task to report on if they understood the content. The integration into other learning areas must be done separately and should be mainly taught explicitly, while supported by the space theme.

### Benefits of an Inquiry-Based Webquest

- Allows for self-guided learning which promotes STEM skills development
- Provides opportunities for cooperative work
- All tasks are available to students, irregardless if they are away from school
- Accountability and transparency with parents

