

GILGANDRA OBSERVATORY

SECONDARY WORKSHEET

To complete this worksheet you will need to use

- Your observational skills
- Your reading skills
- Your listening skills

The Astronomers will gladly listen to your questions, but they may not always give you the answers. They will try to help you find the answers.

QUESTIONS

1 Who invented the first **Refracting Telescope** and when?

2 In the year the inventor of the first telescope died the invent of the **Reflector Telescope** was born. Who was he and what was the diameter of his first mirror?

3 What is a **Light Year**?

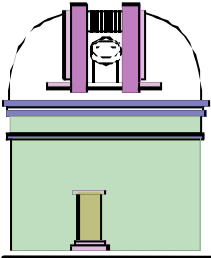
4 What is a **Parsec**?

5 What is an **Astronomical Unit**?

6 Which part of the **Electromagnetic Spectrum** does this telescope detect?

7 The telescopes at **Parkes** and **Narrabri** detect

8 Why do large optical telescopes use **mirrors** and not **lenses**?



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1 What method can be used to determine the distance to:

a) **nearby stars**

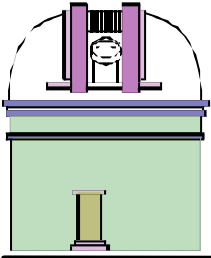
b) **Galaxies?**

2 How long will our **Sun** last?

3 Sketch a cross-section of the **Sun**

4 What is a **Nebula**?

5 Name the **Nebulosity** which is the remnant of a star which **Supernovaed** in 1054. What happened to the core of this star?



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1 What is a **Pulsar**?

2 How is a **Pulsar** formed?

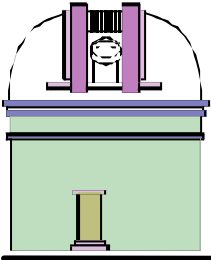
3 **Quasar** is short for

4 What is the nature of **Quasars**?

5 Sketch 3 types of **Galaxy**. Indicate the one most closely resembles our galaxy.

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6 Describe a typical **Neutron Star**, its size, mass, age and speed of rotation



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1 What 2 factors do stars in a **Cluster** have in common?

2 What is a **Globular Cluster**?

3 What is the relationship between **Globular Clusters** and the **Milky Way**?

4 What are **Cepheid Variables**?

5 What are the special properties of **Cepheid Variables**?

6 What is a **Spectroscope** ?

7 How is a **Spectroscope** used?
