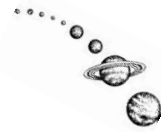


Student name:

Student number:

Scanning Review



Activity 1: Look at **pgs. 76-77** of your textbook and answer the following **4 questions** by scanning the text. Answer with full sentences.

1. What are the two most common elements in the universe?

[2 marks]

2. What is a comet?

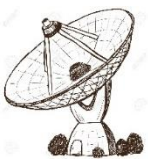
[1 mark]

3. Explain the process of nuclear fusion and the conditions for it to occur.

[3 marks]

4. What can stop telescopes from working?

[2 marks]



Beyond the Solar System

GCSE pgs. 78-79



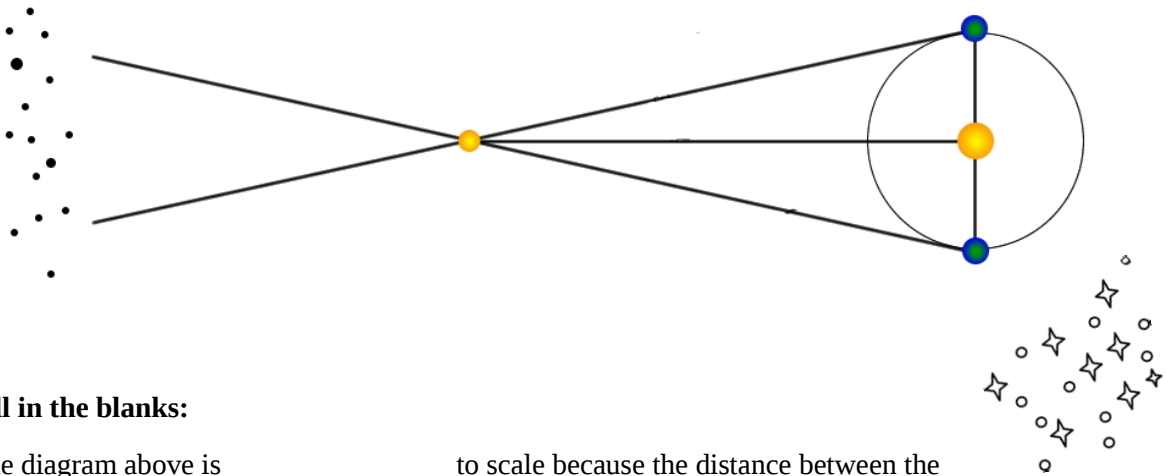
ENGLISH	JAPANESE
Parallax	視差
Assumptions	想定
Telescope	望遠鏡
Angular shift	角度の変化
Brightness	明るさ
Intrinsic brightness	本来備わっている明るさ
Analyze	分析する
Apparent brightness	見た目の明るさ
Satellite	衛星
Faint	かすかな
Astronomer	天文学者
Light year	光年

Student name:

Student number:

Activity 2: Listen to the presentation and fill in the missing information below.

Method 1: Parallax



Fill in the blanks:

The diagram above is _____ to scale because the distance between the _____ and _____ is extremely _____ compared to the distance between the _____ and _____! Also, the Parallax angle is too _____ to draw _____.

The parallax angle of a star is _____ to the distance to the star.

One problem with using the Parallax method is that only _____ stars can be measured using the parallax method because more _____ must be used.

Working space:

Student name:

Student number:

Method 2: Brightness



Fill in the blanks:

The light from the _____ source looks _____ than the other one. Measuring the difference in _____ enables you to calculate the difference in _____ between the two light sources.

The problem with this method is that the two stars must be shining with _____
_____ to be able to measure the distance between them.

Activity 3: Look at **pg. 77** of your textbook and answer the following **3 questions** by scanning the text. Answer with full sentences.

1. Using the information found on pg. 79, calculate the distance in km between:

A) The Sun and Earth

[2 marks]



The distance is _____ km.

B) The Nearest Star and Earth (assume 1 year = 365 days) (2 d.p.)

[2 marks]

The distance is _____ km.

2. What is a light-year?

[2 marks]

Student name:

Student number:

This is a page for notes