

Name:

Student Number:

Astronomy, Worksheet 3 (pages 78-79)

We see light from distant stars and galaxies through _____. The _____ the lens and mirrors, the more we can see, and the _____ we can see into space.

Large telescopes have [one many] curved mirrors to collect light.

Areas with lots of _____ and _____ make bad places to build telescopes. 3 examples of such places are

1. _____
2. _____
3. _____

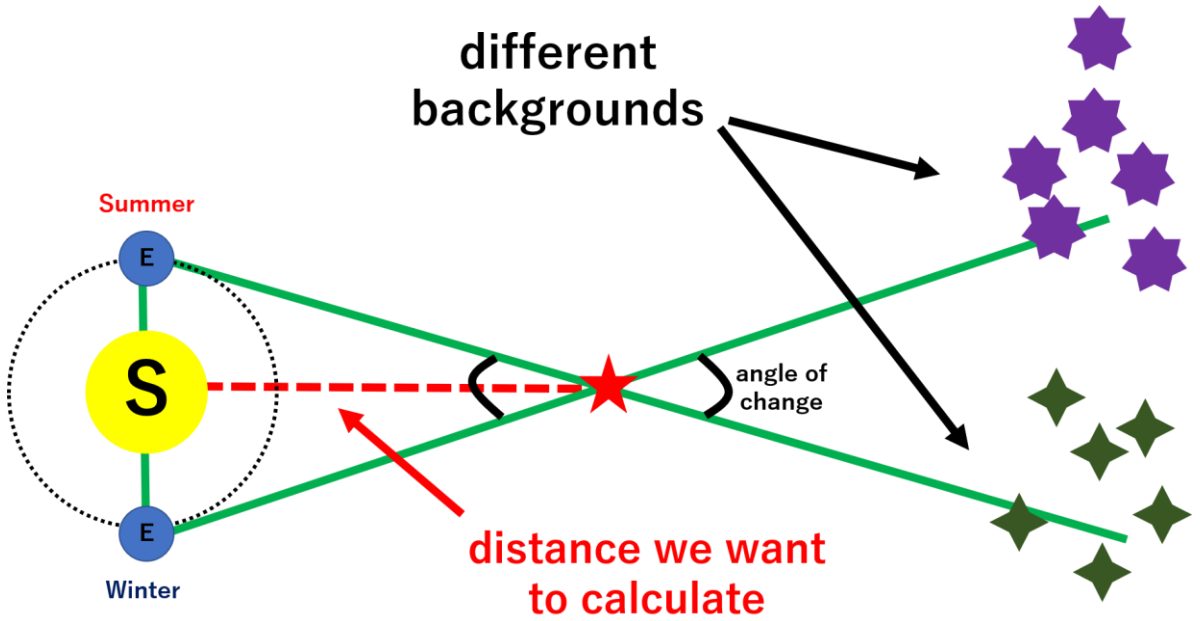
Places with _____ and _____ skies are great places for telescopes. 2 examples of such places are

1. _____
2. _____

Where is the best place for a telescope? _____ Why? _____

Parallax

Parallax uses the movement of the _____ around the _____, triangles, and angle geometry to calculate the distance between our solar system and other stars. The _____ behind a star will change as the Earth moves around the Sun. Scientists measure the _____ of this change and use this angle to calculate the distance.



Brightness

The farther away a star is the [more less] bright it is. There is a problem, though. The stars need to be shining with equal brightness. For this method to work, they must be the _____ type of star.

- This method is _____ for comparing 2 stars that are the same type.
- This method is _____ for comparing 2 stars that are different types.