

# Telescope: Squaring Purpose With Reality

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*Who invented the telescope?*

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Well the first person to create a telescope was Hans Lippershey in the late 1500's. Hans Lippershey is a dutch eyeglass maker and was the first person to apply for a patent for a telescope. His telescope was made with a concave eyepiece and concave objective. Although he was the first to make the first telescope in 1609 Galileo Galilei heard about the dutch perspective glasses he made his own telescope and was able to see the moon's crater and mountains.





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## ***What is a Telescope?***

An optical instrument designed to make distant objects appear nearer, containing an arrangement of lenses, or of curved mirrors and lenses, by which rays of light are collected and focused and the resulting image magnified.

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*What is a light year? why do astronomers use light years to measure distances in space?*

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A light year is a measurement of how much the light travels in one year. one light year is equal to 9,500,000,000,000 kilometers.

Astronomers use this unit because kilometers are too small.



*Why do observing faraway objects help astronomers develop theories about the history of the universe?*

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Observing far away objects help scientist understand the history of the universe because it helps scientist understand the expansion and seeing further into space can show us new planets and stars that exist in other galaxies.

*Why do astronomers use telescopes?*

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Astronomers use telescopes because our eyes are unable to see everything in this world. Telescopes see a lot more things than our eyes can. Telescopes can see radio, microwave, infrared, x-rays, and gamma rays. Telescopes are also able to see fine details in space and it collects more light than our pupil does.



*What telescope do astronomers use?*

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Astronomers use a telescope called The Hubble Space Telescope. It is not on the ground but in space on the earth's orbit. It can see out to a distance of several billions of light years. It has a 2.4-meter (7.9 ft) mirror. It also has a camera which allows scientist to observe from earth. The job of The Hubble space telescope is to observe near ultraviolet and near infrared spectra. The farthest The Hubble has seen as of now is about 10-15 billion light-years away. The Hubble Space Telescopes can see other galazies and can see them forming.