



# ASTRONOMY LAB - Build a Telescope



## Background

Telescopes have made it possible for man to explore space from right here on the ground (as well as from space). There are two main types of optical telescopes: refracting and reflecting.

**Optical** telescopes use the visible part of the electromagnetic spectrum, which is the type of light that we can actually see. Refracting telescopes were created in the early 1600's and were made famous by Galileo Galilei. They use two glass lenses to concentrate a distant object to the viewer.

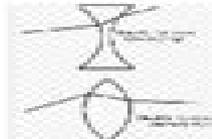
Reflecting telescopes are also optical telescopes which use single or multiple mirrors that reflect light into the viewer. This improved the quality offered by refracting telescopes. They were invented in the mid-1600's, made famous by Sir Isaac Newton, and have improved in mirror and glass quality over the years. Almost all optical telescopes used today are reflecting telescopes.

## The Challenge

Your task is to create a basic refracting telescope without a case. If time permits, you will try to create a reflecting telescope by adding a mirror. Since our telescope will not be inside a case, you will be able to move the pieces to learn the principles of what is happening inside both types of optical telescopes.

## Materials per group

- 1 - Meter stick
- 2 - meter stick stands
- 1 - small holder for 38mm lens
- 1 - large holder for 50-75 mm lens
- 1 - card holder
- 1 - card with stick man



- 1 - 38 mm concave lens
- 1 - 38 mm convex lens (not labeled)
- 1 - 50 mm convex lens (only large lens)
- 1 - Sunlight coming through the window (or flashlight if necessary)

## Procedures

1. Set-up of an optical bench using a meter stick.
  - a. Place the stands about 10 cm from each end of the meter stick.
  - b. Put the card holder on the 50 mm mark of the meter stick & add stickman card
  - c. Place the 38mm CONVEX lens into the small holder and attach to one end of the meter stick.
  - d. Place the 50mm CONVEX lens into the large holder and attach to the other end of the meter stick.



# Astronomy A Process Approach Lab Answers

**Marco Casella**



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