



# 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

**James Gow**



## **Astronomy A Process Approach Lab Answers:**

A method of English. [With] Key, by T.B. Hardy James Gow, 1897      **Technical Report - Jet Propulsion Laboratory, California Institute of Technology** Jet Propulsion Laboratory (U.S.), 1964      *Transactions of the Astronomical and Physical Society of Toronto* Royal Astronomical Society of Canada, 1900      *Report of the President* University of California, Berkeley, 1894      *Publications of the Astronomical Laboratory at Groningen* , 1929      Report of the President of the University on Behalf of the Regents California. University. Regents, 1895      **Workshop on Laboratory and Astronomical High Resolution Spectra** A. J. Sauval, A. Jacques Sauval, R. Blomme, Ronny Blomme, Nicolas Grevesse, 1995      Publications of the Kapteyn astronomical laboratory at Groningen Rijksuniversiteit Groningen. Sterrekundig laboratorium, 1928

**Report of the Commissioner of Agriculture** United States Department of Agriculture, 1871      Report of the Commissioner of Agriculture , 1871      **Report of the Commissioner of Patents ... Agriculture** United States. Dept. of Agriculture, 1871      **The President's Report to the Board of Regents** , 1873      **The President's Report to the Board of Regents for the Academic Year ...** University of Michigan, 1880      *Biennial Report of the President of the University on Behalf of the Regents ..* University of California (System). Regents, 1891      Biennial Report of the President of the University on Behalf of the Board of Regents University of California (System), 1891      Biennial Report of the President of the University on Behalf of the Board of Regents to His Excellency the Governor of the State University of California (1868-1952). President, 1891      *Publications of the Kapteyn Astronomical Laboratory at Groningen* Rijksuniversiteit te Groningen. Sterrekundig laboratorium, 1953      *Biennial Report* , 1897      **Annual Report** Saint Louis (Mo.). Board of Education, 1909

**Research in Education** , 1972

This book delves into Astronomy A Process Approach Lab Answers. Astronomy A Process Approach Lab Answers is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Astronomy A Process Approach Lab Answers, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
    - Chapter 1: Introduction to Astronomy A Process Approach Lab Answers
    - Chapter 2: Essential Elements of Astronomy A Process Approach Lab Answers
    - Chapter 3: Astronomy A Process Approach Lab Answers in Everyday Life
    - Chapter 4: Astronomy A Process Approach Lab Answers in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Astronomy A Process Approach Lab Answers. The first chapter will explore what Astronomy A Process Approach Lab Answers is, why Astronomy A Process Approach Lab Answers is vital, and how to effectively learn about Astronomy A Process Approach Lab Answers.
  3. In chapter 2, the author will delve into the foundational concepts of Astronomy A Process Approach Lab Answers. This chapter will elucidate the essential principles that must be understood to grasp Astronomy A Process Approach Lab Answers in its entirety.
  4. In chapter 3, the author will examine the practical applications of Astronomy A Process Approach Lab Answers in daily life. The third chapter will showcase real-world examples of how Astronomy A Process Approach Lab Answers can be effectively utilized in everyday scenarios.
  5. In chapter 4, the author will scrutinize the relevance of Astronomy A Process Approach Lab Answers in specific contexts. This chapter will explore how Astronomy A Process Approach Lab Answers is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, the author will draw a conclusion about Astronomy A Process Approach Lab Answers. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Astronomy A Process Approach Lab Answers.

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