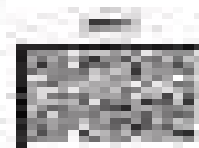


# Lab 2

## Earth–Sun Geometry



STANDARD MODEL OF THE SUN: A SUN SPOT  
 FROM 1800 AD

### LEARNING OBJECTIVES

After completing this exercise, you should be able to understand the geometry of Earth–Sun geometry and how it affects the Earth's climate. You should also be able to understand the Earth's axial tilt and how it affects the Earth's climate. You should also be able to understand the Earth's axial tilt and how it affects the Earth's climate.

### INTRODUCTION

After completing this exercise, you should be able to:

- Understand the geometry of Earth–Sun geometry and how it affects the Earth's climate.
- Understand the Earth's axial tilt and how it affects the Earth's climate.
- Understand the Earth's axial tilt and how it affects the Earth's climate.

After completing this exercise, you should be able to understand the geometry of Earth–Sun geometry and how it affects the Earth's climate.

### Earth–Sun Relationship

The Earth–Sun relationship is a complex one. The Earth's axial tilt and the Earth's orbital eccentricity are two factors that affect the Earth's climate. The Earth's axial tilt is the angle between the Earth's axis and the perpendicular to the plane of the Earth's orbit. The Earth's orbital eccentricity is the degree to which the Earth's orbit around the Sun deviates from a perfect circle.

The Earth's axial tilt is currently about 23.5 degrees. This tilt is responsible for the Earth's seasons. The Earth's orbital eccentricity is currently about 0.0167. This means that the Earth's orbit around the Sun is nearly circular.

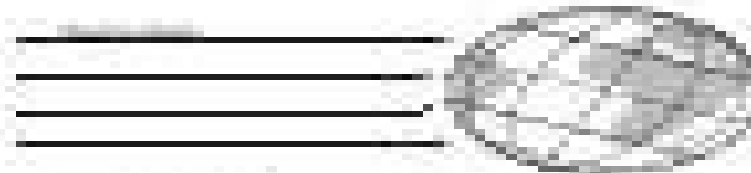


Figure 1.1: Earth's axial tilt and its orbit around the Sun.

# Earth Sun Geometry Lab Teacher Guide

**Thirumalaisamy P.**  
**Velavancorresponding**



## **Earth Sun Geometry Lab Teacher Guide:**

**Investigating the Earth** Earth Science Curriculum Project,1967      *Resources for Teaching Middle School Science* Smithsonian Institution,National Academy of Engineering,National Science Resources Center of the National Academy of Sciences,Institute of Medicine,1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them *Resources for Teaching Middle School Science* developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of *Resources for Teaching Elementary School Science* the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind *Resources for Teaching Middle School Science* will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents      *Software for Aerospace Education* Gregory Vogt,1989      **Basic Earth Science** ,1964      **Scientific and Technical Aerospace Reports** ,1985      **A Teacher's Guide to Spaces** ,1983      **Bridges to Algebra and Geometry** ,2004      **Basic Astronomy Labs** Jay S. Huebner,Michael D. Reynolds,1996 Providing the tools and know how to apply the principles of astronomy first hand these 43 laboratory exercises each contain an introduction that clearly shows budding astronomers why the particular topic of that lab is of

interest and relevant to astronomy About one third of the exercises are devoted solely to observation and no mathematics is required beyond simple high school algebra and trigonometry Organizes exercises into six major topics sky optics and spectroscopy celestial mechanics solar system stellar properties and exploration and other topics providing clear outlines of what is involved in the exercise its purpose and what procedures and apparatus are to be used Offers variations on standard and popular exercises and includes many that are new and innovative such as The Messier List which helps users discover basic facts about the Milky Way Galaxy by plotting these objects on a star chart Motions of Earth demonstrates just how fast the Earth is moving through space and in which direction it is going and Radioactivity and Time which measures the half life of a short lived isotope and consider radioactive dating and heating of celestial bodies Includes a guide to astronomical pronunciations a guide to the constellations spectral classifications quotes on science and more For astronomers **Kliatt Young Adult Paperback Book Guide** ,1994 **The Software Encyclopedia** ,1988 Instructor ,1962 *Video Source Book* ,2008 **Subject Guide to Books in Print** ,1983 **El-Hi Textbooks in Print** ,1978 A Collection of Technical Papers ,1974 Children's Books in Print R R Bowker Publishing,Bowker,1999-12 **Children's Technology Review** ,2005 **Illinois Chemistry Teacher** ,1993 **Webster's New International Dictionary of the English Language, Based on the International Dictionary 1890 and 1900** William Torrey Harris,Frederic Sturges Allen,1911 *Government Reports Index* ,1973

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