

# Earth Science Lab Practical Information

## Things to know about the Earth Science Lab Practical!

- It is worth approximately 15-20% of the total reports score.
- You must have met the MFL lab requirement of 1200-minutes by the day of the lab exam to take it.
- The exam is completed in 8 parts. For each part you receive 8 minutes to complete the activity.
- The 8 activities include: Elliptical Orbits and Eccentricity, Triangulating an Earthquake's Epicenter, and Mineral & Rock Identification.

My lab practical scheduled for \_\_\_\_\_.

## Station # 1: Elliptical Orbits and Eccentricity

WORTH 5 POINTS

Your goal is to draw an ellipse based on the distance from the foci given. You will then measure the major axis and distance between foci to determine eccentricity.

### Procedure:

1. Place the two push pins at the correct distance. Loop the string around the two push pins and draw the ellipse. Spacebook. Make sure the string is under the flat part of the push pins so that it stays even.
2. Use a metric ruler to measure to the nearest tenth of a centimeter (0.1):
  - a. the distance between the foci (the two push pins)
  - b. the length of the major axis (the distance across the ellipse through the two foci points)



$$\text{Eccentricity} = \frac{\text{distance between foci}}{\text{length of major axis}}$$

3. Calculate the eccentricity of your ellipse to the nearest thousandth (0.000) using the equation from your reference table.
4. Describe the relationship between the eccentricity value of an orbit and how elliptical that orbit appears.
  - a. Lower eccentricity means a less elliptical, or more circular.
  - b. High eccentricity means more elliptical, or more oval.
5. Identify the relative orbital velocity of an object orbiting a star based on its distance from the star.
  - a. Moves with the fastest orbital velocity when closest to the star.
  - b. Moves with the slowest orbital velocity when furthest from the star.



# Earth Science Lab Practical Guide

**Clifford Lane**



## Earth Science Lab Practical Guide:

*Earth Science Lab Manual* Kelly Lablanc, 2015-12-03      **Earth Science** Robert Mims, 2011-12-27      **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

*A Lab Manual for Introduction to Earth Science* Harold Connolly, Cyrena A. Goodrich, Michael K. Weisberg, 2007-08-22      **Earth Science Lab Manual** Ken Schaefer, 2011-09-20 This **Earth Science Lab Manual** was written to accompany the Logos Science Earth Science Lab Kit It is written with a strong Christian emphasis and is coordinated to work with most popular Christian texts Experiments 1 Scientific Investigation 2 Star Viewing 1 3 Star Viewing 2 4 Variation in Sunrise and Sunset Times 5

Retrograde Motion of Mars 6 Telescopes 7 Counting the Visible Stars 8 Diameter of the Sun 9 Sunspots Cycles 10 Planetary Orbits 11 Orbit of Mercury 12 Orbital Speeds 13 Moon Viewing 14 Moon Cycles 15 Rotation of the Moon 16 Greenhouse Effects 17 Water in the Atmosphere 18 Dew Point 19 Air Variables 20 Effects of Air Pressure Differences 21 Observing Pressure Changes 22 Preparing Weather Maps 23 Earth's Density 24 Carbon 14 Dating 25 Properties of Minerals 26 Determining the Specific Gravity of Minerals 27 Rock Identification 28 Earthquake Locations 29 The Steepness of a Volcano 30 Ocean Water Salinity and Density 31 Wave Depth Wave Velocity and Tsunamis 32 Glacial Dynamics

**Merrill Earth Science** Ralph M. Feather, Susan Leach Snyder, Dale T. Hesser, 1995 **Investigations in Earth Science Lab Manual** Michael D. Bradley, 2012-12-12 *Classic references for earth-science reading* Léon Delbos, Jacobus Gravesteijn, Patrice Lannez, 1997 *Earth Science Lab Manual* AGS Secondary, 2006-01 Hands on activities enrich the learning experience Earth Science provides easy to understand instruction on Earth planets atoms elements oceans and climate This full color text is ideal for students and young adults who need science instruction that meets national science standards Lexile Level 840 Reading Level 3 4 Interest Level 6 12 **Resources in Education**, 1997 **Research in Education**, 1974 *Science Curriculum Resource Handbook*, 1992 *Subject Guide to Books in Print*, 2001 **Laws (abstract) and Board Rulings Regulating the Practice of Medicine in the United States, and Brief Statements Regarding Medical Registration Abroad** American Medical Association, 1916 **Directory of Geoscience Departments**, 1999 *Bowker's Complete Video Directory*, 2000 **Environmental Education Teacher Resource Handbook** Richard J. Wilke, 1993 From the Preface The Environmental Education Teacher Resource Handbook is one of a series of practical references for curriculum developers education faculty veteran teachers and student teachers The handbook is designed to provide information on the background of environmental education EE curriculum as well as current comprehensive information on publications standards and special materials for K 12 EE Think of this handbook as the first place to look when you are revising or developing your EE curriculum or if you need resource information on EE any time of the year This handbook does not seek to prescribe any particular form of curriculum nor does it follow any set of standards or guidelines Instead the book provides a general grounding in the EE curriculum so that you can use this information and then proceed in the direction best suited for your budget your school and your district What this handbook gives you is a sense of the numerous options that are available it is up to you to use the information to develop the appropriate curriculum or program for your situation **Elements of Earth Science Laboratory Manual** Mark A. Tinsley, Stephen Underwood, David Gilhousen, Thomas Breuner, Marcus Ross, Thomas Williams, 2016-07-30 *Elements of Earth Science Laboratory Manual and Kit* *Earth Science Lab Manual* Ken Schaefer, 2013-08-12 Calvert Education High School Middle School Earth Science Lab Manual Faith Based This manual with a strong Christian emphasis includes instructions for the Calvert Education Earth Science lab kit Term 1 and Term 2 The experiments are laid out with The goals or learning objectives The materials and

equipment included and commonly available items that you may need to be supply An introduction of the science concept s A Bible devotional relating the science concept to God or to life Step by step instructions Data collection and questions Experiments Determining the Age of an Object 2 Earth s Density 3 Properties of Minerals 4 Determining the Specific Gravity of Minerals 5 Rock Identification 6 Earthquake Locations 7 The Steepness of a Volcano 8 Scientific Investigation 9 Glacial Dynamics 10 Water in the Atmosphere 11 Observing Pressure Changes 12 Effects of Air Pressure Differences 13 Air Variables 14 Dew Point 15 Greenhouse Effects 16 Ocean Water Salinity and Density 17 Wave Depth Wave Velocity and Tsunamis 18 Variation in Sunrise and Sunset Times 19 Retrograde Motion of Mars 20 Telescopes 21 Counting the Visible Stars 22 Planetary Orbits 23 Orbit of Mercury 24 Orbital Speeds 25 Moon Viewing 26 Moon Cycles 27 Rotation of the Moon 28 Diameter of the Sun 29 Sunspots Cycles 30 Extremely Large Measurements The Solar System      *Resources in Education*, 1996

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