

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 thousandths (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

Maurice Gibbons



Earth Science Lab Practical Guide:

Whispering the Techniques of Language: An Psychological Quest through **Earth Science Lab Practical Guide**

In a digitally-driven earth wherever screens reign supreme and immediate communication drowns out the subtleties of language, the profound secrets and mental subtleties hidden within words frequently move unheard. However, situated within the pages of **Earth Science Lab Practical Guide** a interesting fictional treasure pulsating with raw thoughts, lies an exceptional journey waiting to be undertaken. Composed by an experienced wordsmith, that enchanting opus attracts visitors on an introspective trip, delicately unraveling the veiled truths and profound influence resonating within the material of each word. Within the mental depths with this moving review, we can embark upon a sincere exploration of the book is key subjects, dissect their fascinating writing type, and fail to the strong resonance it evokes heavy within the recesses of readers hearts.

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