



Student Exploration: Comparing Earth and Venus

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Earth and Venus

Mount View Middle School (G/T Earth science class)

Earth and Venus Gizmo/Understanding

Activity A: Revolution

Get the Gizmo ready:

- Click **Reset** (↺).
- Set the **Speed** to **Fast**.



Question: How does a year on Venus compare to a year on Earth?

1. Observe: Click **Play**. Which planet revolves around the Sun more quickly?

Venus revolves more quickly around the sun.

Which planet has a shorter distance to travel in its orbit?

Venus has a shorter distance to travel in orbit

2. Measure: Click **Reset**. The **period** of a planet is time it takes to complete one orbit around the Sun. From the **POINTER** tray at the bottom of the Gizmo, drag an arrow to mark Earth's initial position. Drag a second arrow to mark the initial position of Venus.

Click **Play**, and then click **Pause** (⏸) when the faster planet reaches its original position. Record this time below. Then use the Gizmo to measure the period of the slower planet.

Period of Earth (Earth days): 365

Period of Venus (Earth days): 225

3. Analyze: What unit of time is equal to Earth's period?

One Earth year

How long is a **year** on Venus?

225

4. Explain: What are two reasons the period of Venus is shorter than the period of Earth?

The period of Venus is shorter because it is closer to the sun. Another reason is because it rotates slower on its axis.

5. Explore: Click **Reset**, and reduce the **Speed** to a slower setting. Observe the orbit of the Moon around Earth.

Student Exploration Comparing Earth And Venus Guide

Didier Musso



Student Exploration Comparing Earth And Venus Guide:

Teacher's Guide for NF-58 Comparing the Planets Robert Murphy,1980 **Journey Through the Solar System** John Bluck,1987 **Project Earth Science** Geoff Holt,Nancy W. West,2011 Project Earth Science Astronomy Revised 2nd Edition involves students in activities that focus on Earth s position in our solar system How do we measure astronomical distances How can we look back in time as we gaze across vast distances in space How would our planet be different without its particular atmosphere and distance to our star What are the geometries among Earth the Moon and the Sun that yield lunar phases and seasons Students explore these concepts and others in 11 teacher tested activities Scientific and Technical Aerospace Reports ,1995 *Social Sciences and Space Exploration* ,1984 **Peterson's Guide to Graduate Programs in the Physical Sciences and Mathematics** ,1990 **Bowker's Complete Video Directory** ,2000

Atmospheres in the Solar System Michael Mendillo,Andrew Nagy,Andrew F. Nagy,J. H. Waite, Jr.,2002-01-21 Takes a comparative studies approach to the study of the solar system with 25 contributions organized into six sections overviews interactions between planetary and small body atmospheres with the surrounding plasma medium chemistry energetics and dynamics models of aeronomic systems observational applications and atmospheres of other worlds Suitable as an overview for graduate students and new professionals in aeronomy as well as providing synthesis for veterans in the field with excellent references to guide further research Mostly b w illustrations with a few color plates Annotation copyrighted by Book News Inc Portland OR **Hours at Home** ,1870 *Liberty* ,1926 The Elementary School Library Collection Lauren K. Lee,Linda L. Homa,1994 Cited in Sheehy and Walford this comprehensive reference recommends print and audiovisual materials as well as microcomputer software and CD ROM products for preschool through sixth grade children The present edition includes 12 294 recommended titles 3 070 being new listings Each entry notes the format s available and provides cataloging and ordering information a critically descriptive annotation interest and reading level estimates and priority for acquisition For school public and academic librarians and preservice and inservice faculty Published by the Brodart Company 500 Arch St Williamsport PA 17705 Annotation copyright by Book News Inc Portland OR **Instructor** ,1970-08 **The Elementary School Library Collection, Phases 1-2-3** ,1994 **School Library Journal** ,2006

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