

Chapter 23 “Touring Our Solar System”

23.1 - The Solar System

- The sun is the hub of a huge rotating system of planets, their satellites, and numerous smaller celestial (sky) bodies
- About 99.85% of the mass of our solar system is contained within the sun. The other 0.15% is mostly made up by the planets
- What are the order of the planets (closest to sun → farthest to sun):
- Mercury → Venus → Earth → Mars → Jupiter → Saturn → Uranus → Neptune



- The planets are held by the sun's gravitational force, each planet moves in an elliptical orbit, and all travel in the same direction
- The nearest planet to the sun (mercury) has the fastest orbital motion at 48 km/sec and it has the shortest period of revolution
- The farthest planet to the sun (neptune) has an orbital speed of 5km/sec and it requires 165 Earth years to complete one revolution

The Planets: An Overview

- Terrestrial planets
 - Mercury, Venus, Earth, and Mars
 - Relatively small and rocky
 - They are Earth-like planets
 - They are called the inner planets because they are the closest to the sun
- Jovian planets
 - Jupiter, Saturn, Uranus, and Neptune
 - Huge gas giants
 - They are Jupiter-like planets
 - Often called giants

Touring Our Solar System Study Guide

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Touring Our Solar System Study Guide:

Excel Science Study Guide, Years 7-8 Nicholas Pefani,2005 **Study Guide for the Telecourse Project Universe** Joel M. Levine,Richard T. Searles,1988 **Learning About Our Solar System, Grades 4 - 8** Routh,2009-09-02 Connect students in grades 4 and up with science using Learning about Our Solar System This 48 page book takes students on a journey through the solar system and its fascinating mysteries Topics include the sun inner and outer planets minor planets comets stars black holes the galaxy in which we live and beyond The book also includes reinforcement activities a research project a vocabulary study sheet a crossword puzzle a unit test a bibliography and answer keys **Create Electronic Presentations (PowerPoint 2003) BSBADM306A** Cheryl Price,Julia Wix,2004 *Galileo, the Tour Guide (and a Summary of the Mission to Date)* Jean H. Aichele,1996 **Study Guide to Accompany Contemporary Physical Geology, Harold L. Levin** John A. Ciciarelli,1981 Create Electronic Presentations Powerpoint 2002 Cheryl Price,Julia Wix,2003 *Readers' Guide* ,1912 An Introduction to the Solar System David A. Rothery,Neil McBride,Iain Gilmour,2018-01-11 Ongoing advances in Solar System exploration continue to reveal its splendour and diversity in remarkable detail This undergraduate level textbook presents fascinating descriptions and colour images of the bodies in the Solar System the processes that occur upon and within them and their origins and evolution It highlights important concepts and techniques in boxed summaries while questions and exercises are embedded at appropriate points throughout the text with full solutions provided Written and edited by a team of practising planetary scientists this third edition has been updated to reflect our current knowledge It is ideal for introductory courses on the subject and is suitable for self study The text is supported by online resources hosted at www.cambridge.org/solarsystem3 which include selected figures from the book self assessment questions and sample tutor assignments with outlines of suggested answers *The Complete Idiot's Guide to NASA* Thomas D. Jones,Michael Benson,2002-01-01 Coverage includes the history of NASA from its origins in the 1950s as the Jet Propulsion Laboratory and Projects Mercury and Gemini the history and timeline triumphs and tragedies of the famed Apollo missions including the historic Apollo 11 which put the first men on the Moon in 1969 NASA s contributions to our everyday life most notably on robotics and the creation of cutting edge research on aerodynamics and chapters on important NASA discoveries the Pioneer and Voyager Spacecraft the Hubble Space Telescope communications satellites such as the Echo Telstar and Syncom *Galileo, the Tour Guide* Jean H. Aichele,1997-05 The Beginner's Guide to the Occult Deborah Lipp,2025-06-17 Discover the secret world of the occult The occult is an ancient field of supernatural study that was formed to help unravel the mysteries of the universe The Beginner s Guide to the Occult helps you explore some of these mysteries for yourself with simple explanations of different occult practices and their fascinating history This guide is designed for any beginner who seeks to learn more about the occult and answer big questions about human nature as well as natural phenomena like the sky the stars and the Earth A modern approach Begin with an overview of the key history and beliefs of occult philosophy and

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Pictures and Filmstrips Library of Congress,1968 **Life in the Universe, 5th Edition** Jeffrey Bennett,Seth Shostak,Nicholas Schneider,Meredith MacGregor,2022-08-23 The world s leading textbook on astrobiology ideal for an introductory one semester course and now fully revised and updated Are we alone in the cosmos How are scientists seeking signs of life beyond our home planet Could we colonize other planets moons or even other star systems This introductory textbook written by a team of four renowned science communicators educators and researchers tells the amazing story of how modern science is seeking the answers to these and other fascinating questions They are the questions that are at the heart of the highly interdisciplinary field of astrobiology the study of life in the universe Written in an accessible conversational style for anyone intrigued by the possibilities of life in the solar system and beyond Life in the Universe is an ideal place to start learning about the latest discoveries and unsolved mysteries in the field From the most recent missions to Saturn s moons and our neighboring planet Mars to revolutionary discoveries of thousands of exoplanets from the puzzle of life s beginning on Earth to the latest efforts in the search for intelligent life elsewhere this book captures the imagination and enriches the reader s understanding of how astronomers planetary scientists biologists and other scientists make progress at the cutting edge of this dynamic field Enriched with a wealth of engaging features this textbook brings any citizen of the cosmos up to speed with the scientific quest to discover whether we are alone or part of a universe full of life

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