

Scale of the Solar System**Lab Sheet 7 (pg. 1)**

Name _____

Lab Section _____

Getting Started

1. What do you know about the formation of, order of, size of, and relative distances between the planets within the solar system? Record your ideas here.

Inquiry 7.1: Building a Scale Model of the Solar System Using a Scale Factor

1. Look at the spheres in your bag. Which spheres could represent each planet if your spheres were "to scale" with one another? Place the spheres in order on the floor or table. Position them to scale both by size and distance. Be prepared to share your model solar system with the other groups and to justify why you selected and spaced the objects as you did. Record below which objects you used, their sizes, and their relative distances from each other.

Mercury

Venus

Earth

Mars

Jupiter

Saturn

Uranus

Neptune

Solar System Astronomy Lab Manual Answers

Donald Witt



Solar System Astronomy Lab Manual Answers:

Introductory Astronomy Laboratory Manual Donald J. Summers, 1997

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

Solar System

Astronomy Lab Manual, 2024-10

The Solar System Michael A. Seeds, 2003 Adapted from the newly revised

FOUNDATIONS OF ASTRONOMY 7th edition THE SOLAR SYSTEM 3rd edition contains the introductory and historical astronomy chapters from FOUNDATIONS as well as the planets chapters and the last chapter Life on Other Worlds This newly revised and updated 3rd edition shows students their place in the universe not just their location but also their role as

planet dwellers in an evolving universe Fascinating and engaging the book illustrates how science works and how scientists depend on evidence to test hypotheses Students will learn to focus on the scientific method through the strong central theme of how we know what we know Through a discussion of this interplay between evidence and hypothesis Seeds provides not just a series of facts but also a conceptual framework for understanding the logic of astronomical knowledge The book vividly conveys the author s love of astronomy shows students how the universe can be described by a small set of physical laws and illustrates how they can comprehend their place in the universe by understanding these laws rather than simply memorizing facts By crafting a story about astronomy Seeds shows students how to ask questions of nature and therefore gradually puzzle out the beautiful secrets of the physical world The book s use of mathematics is incorporated into the body of the text as well as in separate sections for easy reference but the arguments of the text do not depend on mathematical reasoning allowing math averse students to easily follow the story The revision covers the history of astronomy elementary physics concepts the solar system and a brief perspective on the origins of the universe **Activities in Astronomy** Darrel B. Hoff,1995-06 **Software for Aerospace Education** Gregory Vogt,1989 **The Solar System** Jeffrey O. Bennett,2002 On the disc Developed by Carina Software based on the suite of Voyager products College ed version 3 2 *Scientific and Technical Aerospace Reports* ,1994 *Government-wide Index to Federal Research & Development Reports* ,1967 **Deep Sky** ,1990 Voyages Through the Universe Andrew Fraknoi,David Morrison,Sidney C. Wolff,2000 Available FREE with any of the three textbooks in the Voyages series the 2001 Update contains updated material on Mars Global Surveyor and Galileo spacecraft results the NEAR Shoemaker data from the asteroid Eros the discovery of new extra solar planets and planetary systems the latest from Chandra the implications of the latest cosmological measurements and more The Update refers the reader back to the appropriate chapter of the main text and shows how new discoveries and ideas fit and includes both published and Web resources El-Hi Textbooks in Print ,1984 Manual of Online Search Strategies C. J. Armstrong,J. A. Large,2001 Comprehensively updated this three volume edition of the Manual of Online Search Strategies covers the whole range of Internet CD ROM and dial up online services and includes several new chapters International experts on each subject area selected from the UK and North America describe in detail how to identify and exploit specialist bibliographic and non bibliographic databases the best search methods and delivery modes and the relative merits of different services and online hosts in their different disciplines Numerous examples of search results are used to illustrate different strategies and commands Each volume includes the editors introductory chapter on search strategies which gives an overview of searching language platforms and vendors interfaces and search and database evaluation methods Volume III incorporates a new chapter on education in addition to the updated chapters from the last edition The Manual can be used as a subject handbook a directory of recommended resources and as a textbook This new edition provides extensive guidance for searchers of electronic information and is particularly useful for those working in a subject area other than their own Readers will gain a

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