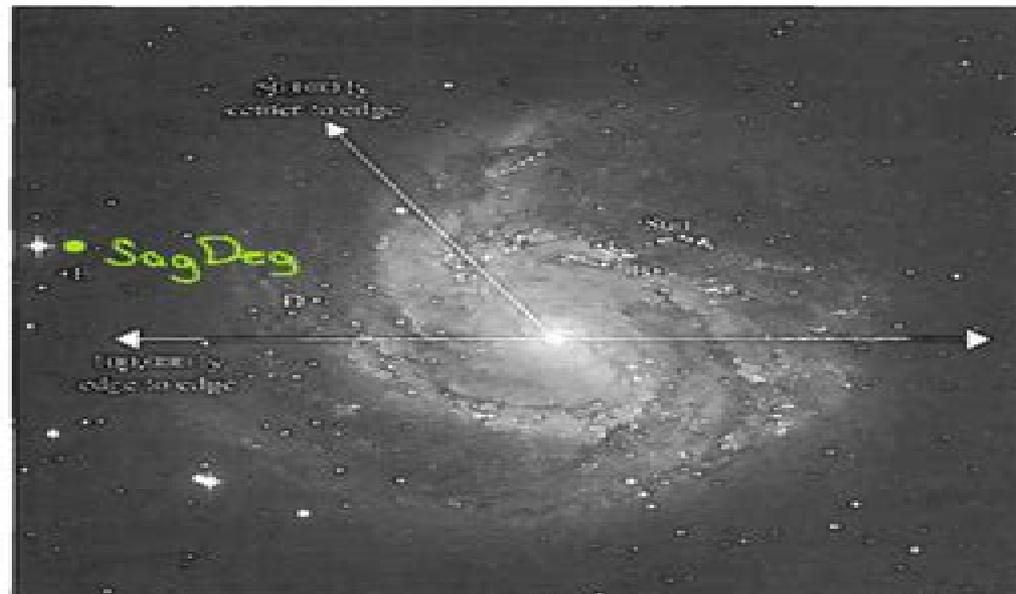


This tutorial will give you a better understanding of the size of the Milky Way Galaxy by investigating the distances and sizes of objects within the Milky Way Galaxy and outside the Milky Way Galaxy elsewhere in the universe. Below is a picture of a spiral galaxy similar to the Milky Way. Because we are located within the Milky Way, we are unable to take a picture of our entire galaxy from the outside. Let's assume that this picture represents our Milky Way Galaxy and has the dimensions labeled below. Note that in this picture, **1 centimeter (cm) represents 10,000 light-years (ly)**; equivalently, you can use **1 millimeter (mm) to represent 1,000 light-years (ly)**.



- 1) The Sun's position in the Milky Way is shown in the picture above. What is the approximate distance from the Sun to the center of the Milky Way? Recall that 1 cm represents 10,000 ly.

approximately 25,000 ly

• LMC

Introductory Astronomy Lecture Tutorials Answers

Clemens Wendtner



Introductory Astronomy Lecture Tutorials Answers:

Lecture Tutorials for Introductory Astronomy Jeff Adams, Edward E. Prather, Tim Slater, Timothy F. Slater, Jack Dostal, 2004-03 Lecture Tutorials for Introductory Astronomy which was developed by the Conceptual Astronomy and Physics Education Research CAPER Team is a collection of classroom tested activities designed for the large lecture introductory astronomy class although it is suitable for any astronomy class The Lecture Tutorials are short structured activities designed for students to complete while working in pairs Each activity targets one or more specific learning objectives based on research on student difficulties in astronomy Most activities can be completed in 10 to 15 minutes The instructor's guide provides for each activity the recommended prerequisite knowledge the learning goals for the activity a pre activity assessment question an answer key suggestions for implementation and follow up questions to be used for class discussion or homework

African Cultural Astronomy Jarita Holbrook, R. Thebe Medupe, Johnson O. Urama, 2008-01-01 This is the first scholarly collection of articles focused on the cultural astronomy of Africans It weaves together astronomy anthropology and Africa and it includes African myths and legends about the sky alignments to celestial bodies found at archaeological sites and at places of worship rock art with celestial imagery and scientific thinking revealed in local astronomy traditions including ethnomathematics and the creation of calendars Authors include astronomers Kim Malville Johnson Urama and Thebe Medupe archaeologist Felix Chami and geographer Michael Bonine and many new authors As an emerging subfield of cultural astronomy African cultural astronomy researchers are focused on training students specifically for doing research in Africa The first part of the volume contains lessons and exercises to help the beginning student of African cultural astronomy Included are exercises in archaeoastronomy cultural anthropology and naked eye astronomy penned by authors who use these regularly use these methods for their research This collection of lessons and research papers provides a foundation for the cultural astronomy researcher interested in doing work in Africa

Lecture Tutorials for Introductory Astronomy Edward E. Prather, Timothy F. Slater, Jeffrey P. Adams, 2008 Funded by the National Science Foundation Lecture Tutorials for Introductory Astronomy is designed to help make large lecture format courses more interactive with easy to implement student activities that can be integrated into existing course structures The Second Edition of the Lecture Tutorials for Introductory Astronomy contains nine new activities that focus on planetary science system related topics and the interactions of Light and matter These new activities have been created using the same rigorous class test development process that was used for the highly successful first edition Each of the 38 Lecture Tutorials presented in a classroom ready format challenges students with a series of carefully designed questions that spark classroom discussion engage students in critical reasoning and require no equipment The Night Sky Position Motion Seasonal Stars Solar vs Sidereal Day Ecliptic Star Charts Fundamentals of Astronomy Kepler's 2nd Law Kepler's 3rd Law Newton's Laws and Gravity Apparent and Absolute Magnitudes of Stars The Parsec Parallax and Distance Spectroscopic Parallax Nature of Light in Astronomy The

Electromagnetic EM Spectrum of Light Telescopes and Earth s Atmosphere Luminosity Temperature and Size Blackbody Radiation Types of Spectra Light and Atoms Analyzing Spectra Doppler Shift Our Solar System The Cause of Moon Phases Predicting Moon Phases Path of Sun Seasons Observing Retrograde Motion Earth s Changing Surface Temperature and Formation of Our Solar System Sun Size Stars Galaxies and Beyond H R Diagram Star Formation and Lifetimes Binary Stars The Motion of Extrasolar Planets Stellar Evolution Milky Way Scales Galaxy Classification Looking at Distant Objects Expansion of the Universe For all readers interested in astronomy **Journal of Geoscience Education** ,1997 **Active Learning in College Science** Joel J. Mintzes,Emily M. Walter,2020-02-23 This book explores evidence based practice in college science teaching It is grounded in disciplinary education research by practicing scientists who have chosen to take Wieman s 2014 challenge seriously and to investigate claims about the efficacy of alternative strategies in college science teaching In editing this book we have chosen to showcase outstanding cases of exemplary practice supported by solid evidence and to include practitioners who offer models of teaching and learning that meet the high standards of the scientific disciplines Our intention is to let these distinguished scientists speak for themselves and to offer authentic guidance to those who seek models of excellence Our primary audience consists of the thousands of dedicated faculty and graduate students who teach undergraduate science at community and technical colleges 4 year liberal arts institutions comprehensive regional campuses and flagship research universities In keeping with Wieman s challenge our primary focus has been on identifying classroom practices that encourage and support meaningful learning and conceptual understanding in the natural sciences The content is structured as follows after an Introduction based on Constructivist Learning Theory Section I the practices we explore are Eliciting Ideas and Encouraging Reflection Section II Using Clickers to Engage Students Section III Supporting Peer Interaction through Small Group Activities Section IV Restructuring Curriculum and Instruction Section V Rethinking the Physical Environment Section VI Enhancing Understanding with Technology Section VII and Assessing Understanding Section VIII The book s final section IX is devoted to Professional Issues facing college and university faculty who choose to adopt active learning in their courses The common feature underlying all of the strategies described in this book is their emphasis on actively engaging students who seek to make sense of natural objects and events Many of the strategies we highlight emerge from a constructivist view of learning that has gained widespread acceptance in recent years In this view learners make sense of the world by forging connections between new ideas and those that are part of their existing knowledge base For most students that knowledge base is riddled with a host of na ve notions misconceptions and alternative conceptions they have acquired throughout their lives To a considerable extent the job of the teacher is to coax out these ideas to help students understand how their ideas differ from the scientifically accepted view to assist as students restructure and reconcile their newly acquired knowledge and to provide opportunities for students to evaluate what they have learned and apply it in novel circumstances Clearly this prescription demands far more than most college and university scientists

have been prepared for *Doing Research to Improve Teaching and Learning* Kimberly M. Williams, 2021-07-29 In this rapidly changing teaching and learning environment one of the most promising ways for faculty at institutions of higher education to improve their teaching is to capitalize upon their skills as researchers This book is a step by step guide for doing research to inform and improve teaching and learning With background and instruction about how to engage in these methodologies including historical analyses qualitative quantitative and mixed methods the second edition of *Doing Research to Improve Teaching and Learning* discusses a process of working collaboratively and reflectively to improve one's teaching craft Full of updated authentic examples from research studies student work and instructor reflections this valuable resource equips faculty with the skills to collect and use data and evidence based instructional methods in any college and university classroom

Handbook of College Science Teaching Joel J. Mintzes, 2006 The Handbook offers models of teaching and learning that go beyond the typical lecture laboratory format and provides rationales for new practices in the college classroom It is ideal for graduate teaching assistants senior faculty and graduate coordinators and mid career professors in search of reinvigoration

Announcer, 2004

Measurements in Evaluating Science Education Amy J. Catalano, Michael A. Marino, 2020-05-06 *Measurements in Evaluating Science Education* is a comprehensive intuitive guide to many of the key instruments created to assess science education environments learning and instruction Nearly 70 different surveys tests scales and other metrics are organized according to the qualities the measures attempt to gauge such as attitudes toward science beliefs and misconceptions self efficacy and content knowledge Summaries of each instrument usage information developmental history and validation and reported psychometric properties make this an essential reference for anyone interested in understanding science education assessment

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