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Lecture- Tutorials for Introductory Astronomy, 3rd Edition

Lecture-Tutorials for Introductory Astronomy, Second Edition provides instructors with a set of easy to implement, carefully constructed exercises that confront student difficulties and assist students in resolving those difficulties. This Instructor’s Guide supplements the Lecture-Tutorials and its stated goals by furnishing a ready to use

LECTURE-TUTORIALS FOR introductory astronomy

Lecture Tutorials for Introductory Astronomy written by Edward E. Prather, Tim P. Slater, Jeffrey P. Adams, Gina Brissenden, and the Conceptual Astronomy and Physics Education Research These introductory astronomy tutorials are student-centered activities designed to promote conceptual understanding.

Lecture Tutorials for Introductory Astronomy

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Instructional and Workshop Materials - Steward Observatory

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.

Lecture Tutorials for Introductory Astronomy by Edward E ...

Socratic-dialogue driven, highly-structured collaborative learning activities for use in introductory Astronomy lecture courses. Designed to elicit students' misconceptions, confront their naive, incomplete, or inaccurate ideas, resolve contradictions, and demonstrate the power of conceptual models.

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Galaxy Classification Participation Exercise Adapted from Lecture Tutorials for Introductory Astronomy workbook You will use the pictures below to help you answers the questions for this exercise. M 1. 2. 3 3. 5. . 11. Which type of galaxy would have only o spectral type stars: elliptical, spiral, both, or neither? Explain your reasoning. 12.

Lecture-Tutorials for Introductory Astronomy provides a collection of 44 collaborative learning, inquiry-based activities to be used with introductory astronomy courses. Based on education research, these activities are "classroom ready" and lead to deeper, more complete understanding through a series of structured questions that prompt you to use reasoning and identify and correct their misconceptions. All content has been extensively field tested and six new tutorials have been added that respond to reviewer demand, numerous interviews, and nationally conducted workshops.

This package contains the following components: -0321598768: Astronomy: A Beginner's Guide to the Universe with MasteringAstronomy -0132392267: Lecture Tutorials for Introductory Astronomy

"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.

Lecture-Tutorials for Introductory Astronomy were developed to integrate the needs of busy, research-focused faculty who teach in challenging environments with existing, effective teaching strategies. Chapter topics include the Solar System, stellar magnitudes, techniques in astronomy, moon phases, stellar evolution, and more. For college professors, instructors and other professionals who are interested in a lively, engaging method of teaching introductory astronomy.