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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.

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 Parse, 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.

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.

"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.

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 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.