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~~Astronomy: Lecture 1~~
~~Introduction~~ Lecture

Tutorials for
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to Astronomy: Crash
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Sun in the Daytime Sky~~

~~GRCC Astronomy -~~

~~M6: Chapter 29e~~

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M5: Stellar Evolution

Summary ~~Destroying~~

~~Astrology in Less Than~~

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Earth's motion around
the Sun, not as simple as
I thought General
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The Ancient Views of
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Introductory
Astronomy: Parallax,
the Parsec, and
Distances Flat Earther
Sleeping Warrior
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Our Place in Space
(Intro Astronomy
module 1, lecture 1)

How Earth Moves The

Channel That Makes
you Facepalm! Why
everyone should follow
a crash course in
astronomy | Govert
Schilling |

TEDxAmsterdam

Introductory

Astronomy: Horizon

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Diagrams GRCC

Astronomy - M1:

Chapter 3.1 Are You
Really Teaching if No
One is Learning? -- Dr.
Edward Prather ~~Intro to~~
~~Astronomy~~ ~~Summer~~
~~2018~~ ~~Week1 Part1~~ ~~For~~
~~the Love of Physics~~
~~(Walter Lewin's Last~~
~~Lecture)~~ ~~Introductory~~
~~Astronomy: Comparing~~
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activities to be used in introductory astronomy courses. Based on education research, these activities are [classroom ready] and lead to deeper, more complete student understanding through a series of structured questions that prompt students to use reasoning and identify and correct their

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misconceptions. For

Introductory Astronomy Astronomy, 3rd Edition

...

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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.

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courses. Based on
education research,
these activities are
"classroom ready" and
lead to deeper, more
complete student

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Understanding through a series of structured questions that prompt students to use reasoning and identify and correct their misconceptions.

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Lecture-Tutorials for
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Education 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

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Tutorials For

LECTURE- TUTORIALS FOR

introductory astronomy

Lecture Tutorials for

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written by Edward E.

Prather, Tim P. Slater,

Jeffrey P. Adams, Gina

Brissenden, and the

Conceptual Astronomy

and Physics Education

Research These

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tutorials are student-centered activities designed to promote conceptual understanding.

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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

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ASTR 170B1-The
Physical Universe (a
third custom edition for
the University of
Arizona) by Edward E.
Prather, Timothy F.
Slater , et al. | Jan 1,
2011. Paperback.

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actively engage their

students in developing

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understandings and

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reasoning abilities
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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

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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

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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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of 44 collaborative
learning, inquiry-based
activities to be used in
introductory astronomy
courses.

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Galaxy Classification

Participation Exercise

Adapted from Lecture

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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.

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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

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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

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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,

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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

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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,

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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,

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Expansion of the
Universe. For all readers
interested in astronomy.

Answer Guide

"Lecture-Tutorials for
Introductory
Astronomy," which was
developed by the
Conceptual Astronomy
and Physics Education
Research (CAPER)
Team, is a collection of

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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

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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

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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

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Universe with
Mastering Astronomy
-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

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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.

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