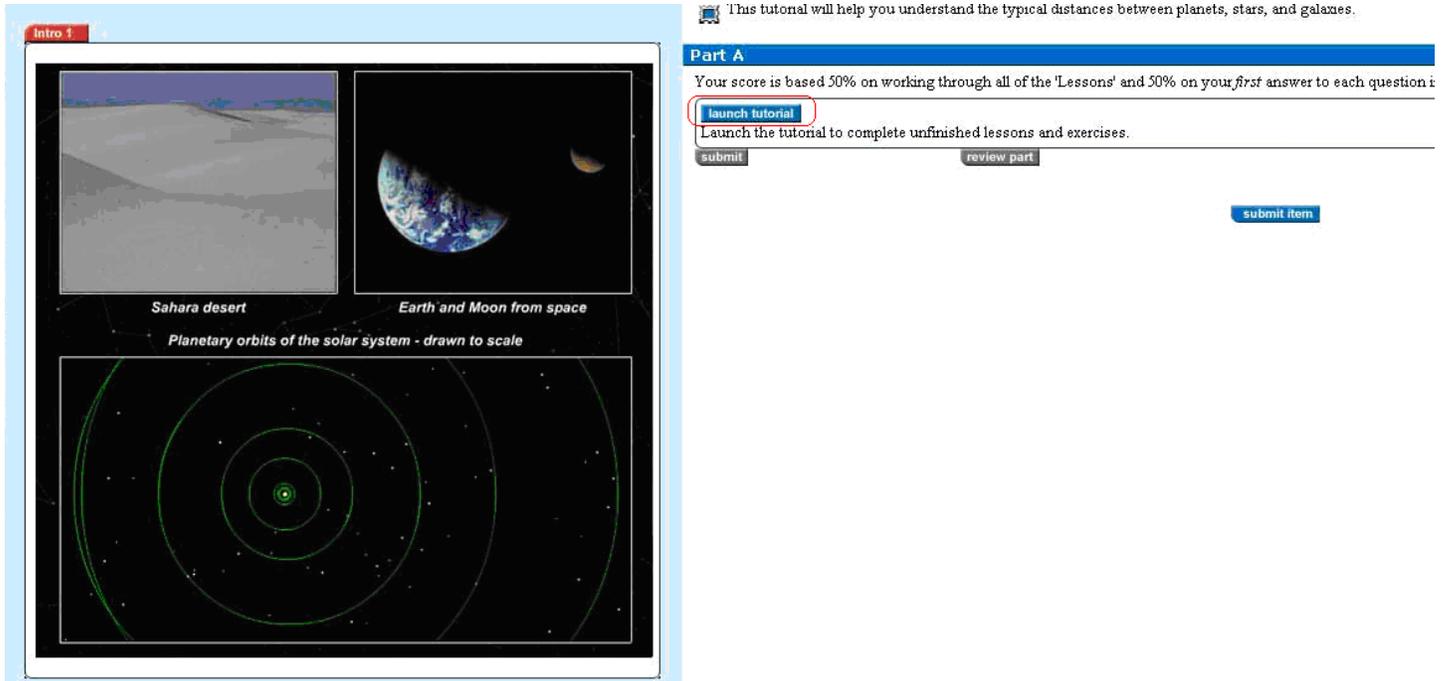


Mastering Astronomy

How to submit Self-Guided Tutorials for grading

Once you figure out how one works, the rest will all work the same way.

1. Launch the tutorial



This tutorial will help you understand the typical distances between planets, stars, and galaxies.

Part A

Your score is based 50% on working through all of the 'Lessons' and 50% on your *first* answer to each question i

launch tutorial

Launch the tutorial to complete unfinished lessons and exercises.

submit review part

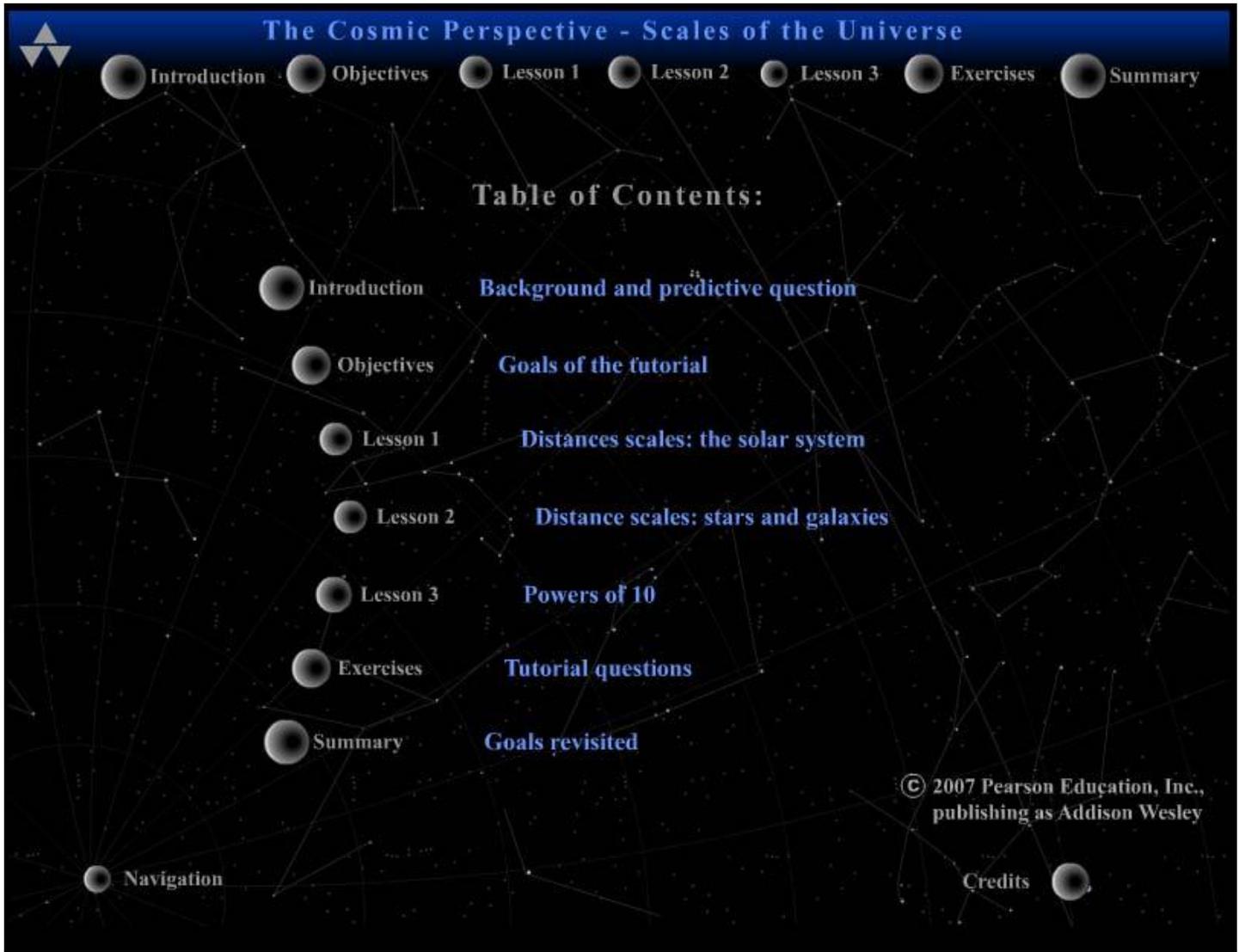
submit item

2. Navigating in the Tutorial

Once you start the tutorial you must use buttons within the tutorial to navigate!

Clicking any browser navigation buttons **outside** the tutorial **will reset the tutorial!** (Or will return you to your last save – keep reading)

An Example Table of Contents



The Cosmic Perspective - Scales of the Universe

Introduction Objectives Lesson 1 Lesson 2 Lesson 3 Exercises Summary

Table of Contents:

Introduction	Background and predictive question
Objectives	Goals of the tutorial
Lesson 1	Distances scales: the solar system
Lesson 2	Distance scales: stars and galaxies
Lesson 3	Powers of 10
Exercises	Tutorial questions
Summary	Goals revisited

Navigation Credits

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Advancing through the tutorial

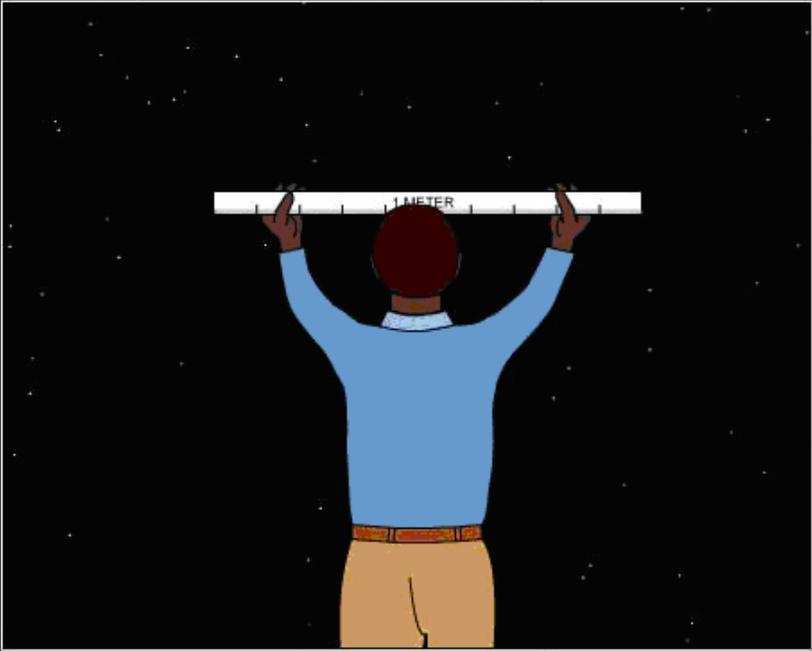
Using "NEXT" and "BACK"

The screenshot shows a tutorial interface with a dark blue header containing the title "The Cosmic Perspective - Scales of the Universe". Below the header is a navigation bar with buttons for "Introduction", "Objectives", "Lesson 1", "Lesson 2", "Lesson 3", "Exercises", and "Summary". The "Lesson 1" button is highlighted. The main content area is split into two parts. On the left, a person in a blue shirt and tan pants holds a white meterstick above their head, with the word "METER" printed on it. On the right, a light blue text box contains the following text: "We will start by reviewing how big meters and kilometers are, since all other units of distance are expressed in terms of these units." followed by "A meter is a little over three feet. This means that a tall person has a height of about 2 meters." and a "Continue" button with a right-pointing arrow. At the bottom right, there is a copyright notice "© 2007 Pearson Education, Inc." and a navigation control panel with "BACK" and "NEXT" buttons highlighted in red, along with other icons like a home button, an information button, and a search button.

Using "Continue"

The Cosmic Perspective - Scales of the Universe

Introduction Objectives **Lesson 1** Lesson 2 Lesson 3 Exercises Summary



We will start by reviewing how big meters and kilometers are, since all other units of distance are expressed in terms of these units.

A meter is a little over three feet. This means that a tall person has a height of about 2 meters.

[Continue](#)

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BACK NEXT



Some questions require you to “submit” an answer *inside* the Self-Guided tutorial before you can continue...

The Cosmic Perspective - Scales of the Universe

Introduction Objectives Lesson 1 Lesson 2 Lesson 3 Exercises Summary

Sun

Earth

Moon's Orbit

Radius of Sun (km)

10000 1000000 = 702505 km

Submit

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BACK NEXT

i S

The radius of the Sun is seven hundred thousand (7×10^5) km.

Now let's see how big the Sun is relative to the Moon's orbit.

Use the slider to adjust the size of the Sun to the value you think is correct. Then click the Submit button.

And some do not...



1. Roughly how far is it from San Francisco to Washington, DC?

- 500 km
- 1,000 km
- 5,000 km
- 20,000 km

Correct! The distance between San Francisco and Washington, DC is about 3,000 miles, or 5×10^3 km.

Continue 

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3. Saving your work

When working in a tutorial, you can save your work at any point and come back to it later (even if you quit the tutorial).

The tutorial **automatically quits when you save and your work will not be visible when you restart the tutorial (even though it was saved)**. I recommend you **either save between sections where you can easily remember what you've done or wait to save until you're completely done with the tutorial**.

The screenshot shows a tutorial interface with a navigation bar at the top containing 'Introduction', 'Objectives', 'Lesson 1', 'Lesson 2', 'Lesson 3', 'Exercises', and 'Summary'. The main content area features a diagram of the Sun at the center of a large green circle representing Earth's orbit. A horizontal line with arrows at both ends indicates the distance from the Sun to the orbit, labeled $1.5 \times 10^8 \text{ km}$. The Sun is labeled 'Sun' and the orbit is labeled 'Earth's Orbit'. To the right of the diagram is a text box with two paragraphs of text and a 'Continue' button with a right-pointing arrow. At the bottom right, there is a copyright notice '© 2007 Pearson Education, Inc.', a navigation bar with 'BACK' and 'NEXT' labels, and a 'Save' icon (a circle with an 'S') which is highlighted with a red box.

The Cosmic Perspective - Scales of the Universe

Introduction Objectives Lesson 1 Lesson 2 Lesson 3 Exercises Summary

Sun

Earth's Orbit

$1.5 \times 10^8 \text{ km}$

Although the Sun is big relative to the Earth-Moon system, it is small relative to the orbits of the planets. The average distance between the Sun and the Earth is 150 million (1.5×10^8) km, which is over 200 times the radius of the Sun.

In the scale drawing at left, the Sun must be a small dot for the Earth's orbit to fit in the screen. The Earth itself is invisible.

Continue >

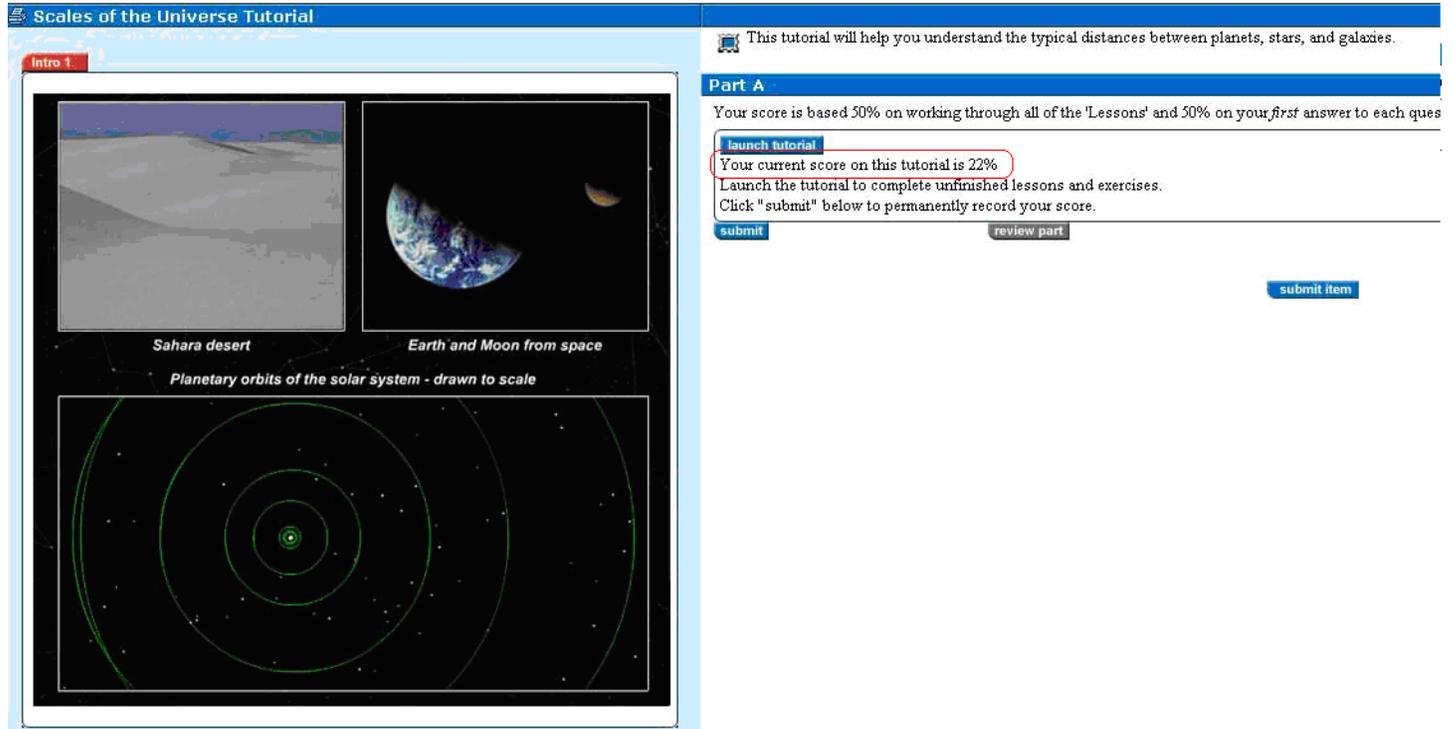
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BACK NEXT

Save

Tracking your tutorial progress

You can know that your work is saved on the start tutorial page by the percent complete.



The screenshot displays the 'Scales of the Universe Tutorial' interface. The main content area is titled 'Intro 1' and features three images: a landscape of the Sahara desert, a view of Earth and the Moon from space, and a diagram of the planetary orbits of the solar system drawn to scale. The right-hand side of the interface shows the 'Part A' section, which includes a progress indicator stating 'Your current score on this tutorial is 22%'. Below this, there are buttons for 'launch tutorial', 'submit', 'review part', and 'submit item'. The 'submit' button is highlighted with a red box.

Scales of the Universe Tutorial

Intro 1

Sahara desert

Earth and Moon from space

Planetary orbits of the solar system - drawn to scale

This tutorial will help you understand the typical distances between planets, stars, and galaxies.

Part A

Your score is based 50% on working through all of the 'Lessons' and 50% on your *first* answer to each ques

launch tutorial

Your current score on this tutorial is 22%

Launch the tutorial to complete unfinished lessons and exercises.
Click "submit" below to permanently record your score.

submit **review part**

submit item

4. Finishing the tutorial

When you get to the end of a tutorial, you'll get the Summary Page.

DO NOT JUST QUIT THE TUTORIAL OR ALL YOUR WORK WILL BE LOST

YOU NOW NEED TO SAVE THE TUTORIAL

The Cosmic Perspective - Scales of the Universe

Introduction Objectives Lesson 1 Lesson 2 Lesson 3 Exercises Summary

Congratulations! You have completed the *Scales of the Universe* tutorial.

You should now be able to:

1. Describe what a light-year and an astronomical unit are, and how they compare to a kilometer.
2. Discuss roughly how much further it is from the Sun to Pluto and Jupiter than to Earth.
3. Use scientific notation.
4. Understand the distances between stars relative to the stars' size.
5. Understand the distances between galaxies relative to the sizes of galaxies.

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Navigation icons: Home, Help, Save (highlighted)

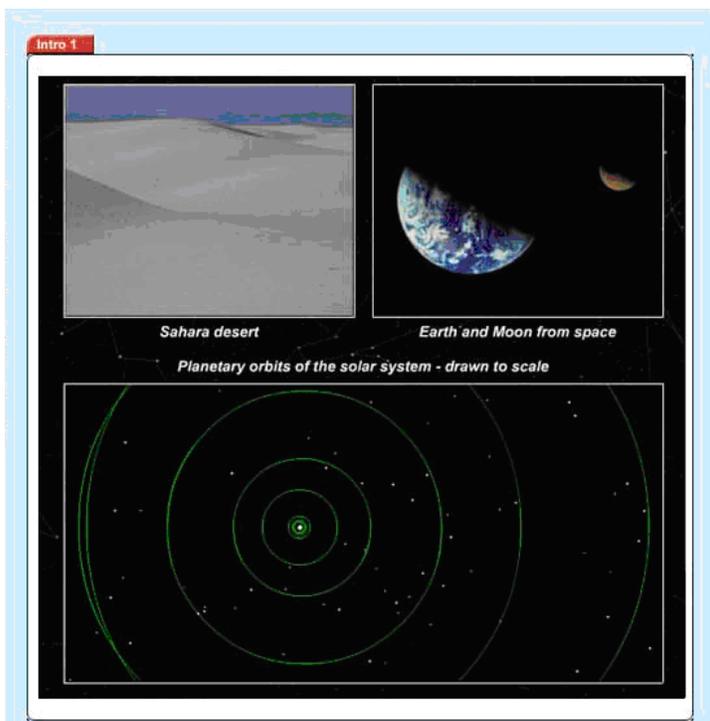
5. Submitting your work

After you save the tutorial, you go back to the launch/submit page

If everything looks ok then hit “submit”

After you finish that submit, then hit “submit item”

You’ve now finished the tutorial (hurray)



Intro 1

Sahara desert

Earth and Moon from space

Planetary orbits of the solar system - drawn to scale

This tutorial will help you understand the typical distances between planets, stars, and galaxies.

Part A

Your score is based 50% on working through all of the 'Lessons' and 50% on your *first* answer to each q

launch tutorial

Your current score on this tutorial is 94%

Launch the tutorial to complete unfinished lessons and exercises.

Click "submit" below to permanently record your score.

submit

review part

submit item