

# Tutorial Lessons

Last Modified on 07/01/2024 4:25 pm EDT

## What is a Tutorial Lesson?

A Tutorial Lesson is a series of questions, consisting of one assigned "Parent" question and multiple, optional "Step" questions. These Step questions are designed to help you figure out the answer to the assigned question by reviewing its main concepts. While the Parent question is graded, the Step questions are not.

## Navigating through a Tutorial Lesson

You'll be able to identify questions with a Tutorial Lesson by looking at the main assignment page, where you'll see a "T" icon and a dropdown list of the Step questions.

### Ch4 Homework

Welcome to Smartwork!  
This assignment is designed with rich feedback to guide you as you learn.

SCORE -- %

04/30/18

**i** Your assignment is due on **April 30th, 2018, at 11:59 PM (Mountain Time)**. Late work is accepted **5 days** after the due date, at **0% penalty per day**.

0 OF 3 QUESTIONS COMPLETED ▶ BEGIN ASSIGNMENT

Question	Type	Points	Attempt	Status
<b>01</b> <b>T</b> If a quantity is conserved, it means that it <span style="float: right;">▶</span> ▼ Tutorial Lesson	Multiple Choice	- / 1	- / ∞	Not Started
1 A friend tells you that the reason astronomers put telescop...	Multiple Select	--	- / ∞	Not Started
2 If we represent the Sun as a volleyball (diameter = 65 cm), h...	Numeric Entry	--	- / ∞	Not Started
3 A light-year is a unit of distance most comparable to the dis...	Multiple Choice	--	- / ∞	Not Started
4 Suppose you set your keys on the table and left the room. ...	Multiple Choice	--	- / ∞	Not Started
<b>02</b> A delta consists of clastic sediment. The different gr... <span style="float: right;">▶</span>	Labeling	- / 1	- / ∞	Not Started
<b>03</b> Watch the <i>Astronomy in Action</i> video about angular... <span style="float: right;">▶</span>	Multiple Select	- / 1	- / ∞	Not Started


Additionally, the questions themselves each have a button at the top of the page that says "Launch Tutorial Lesson."

## 01 Question (1 point)

LAUNCH TUTORIAL LESSON

▼ 1st attempt



 [See Periodic Table](#)

If a quantity is conserved, it means that it

Choose one:

- A. changes only if an internal force acts.
- B. changes only if an external force acts.
- C. can be saved for a later time.
- D. never, ever changes.

You can choose to either begin the Lesson or to proceed to directly answer the Parent question. (Since Tutorial Lessons are designed to help you better understand the concepts of the Parent question, you may not need the Lesson if you feel confident about the question topic.)

When you launch the Lesson, you'll see a page listing all Step questions. Click "Continue Tutorial" to begin working in these Step questions.

# Tutorial Lesson

This tutorial will help you answer your assigned question.  
Try answering these questions below and go back to your assignment.

- 01 Understand advantages of distance
- 02 Determine the galaxy's size
- 03 Relate light years and distances
- 04 Contextualize the application of Occam's Razor

CLOSE TUTORIAL

▶ CONTINUE TUTORIAL

You can skip back and forth between the Steps, and you can choose to answer some or all of them. You can see how

many Step questions there are and which Step you are working in by looking at the bottom of the page.

**Tutorial Step Question**

1st attempt

[See Periodic Table](#) [See Hint](#)

A light-year is a unit of distance most comparable to the distance from Earth to the

Choose one:

- A. Moon
- B. Sun
- C. outer Solar System
- D. nearest star
- E. nearest galaxy

CLOSE TUTORIAL 01 02 03 04 SUBMIT ANSWER

Once you have completed all of the Step questions (or have decided to exit the Lesson) you can go back to the main question page by clicking Close Tutorial.

**Tutorial Step Question**

1st attempt

[See Periodic Table](#) [See Hint](#)

A friend tells you that the reason astronomers put telescopes in space is to get closer to the planets and stars. You know better. Select all statements below that help to explain the real reasons.

Choose one or more:

- A. Telescopes in space do not have to look through Earth's atmosphere, thus eliminating atmospheric distortion in the light they receive.
- B. Most space telescopes are in Earth orbit and thus are not significantly closer to other planets and all stars.
- C. Not all wavelengths of light reach Earth's surface, but space telescopes can capture those that do not.
- D. Telescopes are more effective when they are farther from large sources of gravity.

CLOSE TUTORIAL 01 02 03 04 SUBMIT ANSWER

You can review your completed Lesson from the Parent question, by clicking "Review Tutorial Lesson"

**01 Question** (1 point)

[REVIEW TUTORIAL LESSON](#)

▼ **Solution**



⚡ Explanation

If a quantity is conserved, it means that it

Choose one:

- A. changes only if an internal force acts.
- B. changes only if an external force acts.
- C. can be saved for a later time.
- D. never, ever changes.