

Student name: _____

Attending class, taking notes, doing assigned readings before lectures, and revising notes are all part of what process?

active learning

passive learning

active connecting

passive connecting

Select all of the following that are key processes in studying biology successfully.

taking notes

exchanging notes with other students

memorizing the textbook's table of contents

revising notes

attending class

doing assigned readings before lecture

Writing "evol" instead of "evolution" and "w/o" instead of "without" are examples of what note-taking strategy?

abbreviating

adding headers

revising and reviewing

adding ideas from the text

Select all of the reasons why revising lecture notes is a key step in studying.

Ideas of the lecture can be solidified, which is a key step in learning.

Notes can be put into a context that is understandable.

Paraphrasing can be added, which can help save time when the instructor is talking fast.
Ideas from the readings can be linked to notes from the lectures.

Within the first hour after taking in new information, how much memory loss occurs?

- 0%
- 25%
- 50%
- 75%

The process of learning can be described as
transferring information to long-term memory.
knowing information by instinct.
holding information in short-term memory.
reading and taking notes.

The steps of repeating, organizing, and connecting are components of what key process in learning?

- rehearsal
- note-taking
- statistical tests
- the scientific method

What is one way to improve studying efficiency?

Break up long studying sessions into several smaller intervals.
Play music in the background to reduce distractions.

Keep study sessions in large blocks because it takes about 30-60 minutes before concentration is maximized.

Schedule most study sessions for the day before an exam so that retention is maximized.

Concentration during studying is maximized in what situation?

Many short, focused study sessions take place.

Background television or music is on.

Other people are talking in the environment.

A mobile phone is used to network among other students.

Doing assigned readings before lecture, linking lectures notes to reading, and reading chapters again before exams are all ways to use _____ as a learning tool.

the textbook

note-taking

networking

quizzes

Select all of the ways that the textbook can help clarify what is learned in lecture.

Url links in the text can be double-checked against what is presented in lecture.

Text illustrations reinforce concepts.

Graphs can be manipulated using interactive tools.

Lecture topics are put into perspective and connected to applied examples.

In the textbook, the Key Biological Processes and Phylum Facts are two types of _____ that help summarize and teach complex information.

illustrations

headings

term lists

weblinks

How do the numbered bubble links in complex diagrams and their accompanying text narrative help teach the material?

The individual components and processes in the diagram are broken down and explained.

The figures can be related to other chapters in the book using cross-references.

The key learning objective for each illustration is identified.

The place of each organism in a diagram of the tree of life is listed.

In *Connect*, questions are tied to the _____ in the *ebook* where the information for the question is covered.

learning objective

page number

summary statement

key biological process

In *Smartbook*, what do reports such as Most Challenging LOs, Missed Questions, and Topic Scores help to indicate?

sections or topics that need additional practice

how the concepts in the text relate to the real world

how a student's progress compares to that of other students

how fast a student can read and answer a question

In *Smartbook*, a feature called *Learning Resources* offers _____ to help clarify concepts that are covered in the text and associated assessment questions.

videos and other tools

a tree of knowledge

links to labs at colleges and universities

a question-making tool

What describes the online *Virtual Labs* that accompany the textbook?

Students carry out the steps of an experiment in a simulation.

Students go back and forth between reading concepts in the text and practicing questions.

The steps in difficult diagrams are broken down by numbered bubble links on the diagram and in the corresponding text.

Students answer a series of questions put together and assigned by the instructor.

What does a scientist use when attempting to answer a question about the natural world?

scientific evidence

a poll among friends and colleagues

preference for what seems right

sound opinion

Evidence that 80% of people who develop type 2 diabetes are also obese supports what conclusion?

Obesity can trigger changes that lead to diabetes 2.

Heart disease is associated with obesity.

Obesity is caused by both genetics and environment.

The incidence of obesity is higher in more developed countries.

What describes the independent variable in a scientific experiment?

deliberately changed by the researcher

values are not predetermined by the researcher

the response that is measured

variable that is kept at a constant value

What describes a graph that uses a logarithmic scale to present data?

Numbers are plotted on intervals that increase by powers of 10.

Numbers are plotted on intervals that increase by a constant amount.

Data is plotted in discrete categories.

Data is plotted as sections that represent proportions of a whole.

What is another term for a "best-fit line" that is calculated by estimating the distance of data points from possible lines and selecting the line with the lowest sum?

regression line

variance line

standard error line

reciprocal line

What is another term for a bar graph that is a representation of scientific data?

histogram

log scale

pie chart

line graph

The *Inquiry & Analysis* features at the end of each chapter in the textbook present an experiment and guide students in analyzing a(n)_____ using the steps Applying Concepts, Interpreting Data, Making Inferences, and Drawing Conclusions.

graph

scientific paper

laboratory set-up

experimental set-up

Answer Key

Test name: CH0 The Living World E11

A

[A, D, E, F]

A

[A, B, D]

C

A

A

A

A

A

[B, D]

A

A

A

A

A

A

A

A

A

A

A

A

A