

Week 1—Schedule Module 1

Date:	Day 1 ¹	Day 2 ²	Day 3 ³	Day 4 ⁴	Day 5 ⁵
Science					
Exploring Creation with Biology	pp. 1–6 (bottom)	pp. 6–11	pp. 12–15 (mid-page)	pp. 15–20 (mid-page)	pp. 20–26
Exploring Creation with Biology—CD ROM ¹	"Introduction" through two "On Your Own"	"Sensing and Responding to Change" through three "On Your Own"	"Limitations of the Scientific Method"	"Spontaneous Generation: The Faithful Still Cling to It" through five "On Your Own"	"The Definition of Species" through Experiment 1.1
Multimedia Companion CD	Related to Figures 1.1 & 1.2		Related to Figure 1.4		Related to Figure 1.8
On Your Own	1.1–1.2	1.3–1.5		1.6–1.10	
Experiments					1.1
Experiment Notes	The answers to Experiment 1.1 are found on page 34 of the book or on the CD ROM toward the end of the Module under "Answers to Experiment 1.1."				
Vocabulary ²	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Supplies ³	You Provide: only your textbook is required for this week.				
Shopping/Planning List	For next week: We Provide: 250-25 —(for microscope work) lens paper, slides, coverslips, eyedropper, methylene blue stain. You Provide: cotton swabs, water, piece of bright thread.				
Other Notes					

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1. The "Exploring Creation with Biology—CD ROM" schedule is for the full course CD ROM version of the text. It is identical to the page designations given for the text, *Exploring Creation with Biology*. You will use either the textbook *Exploring Creation with Biology* or the CD ROM version. You do not need both versions to complete this course.

2. Define vocabulary terms and names found in each day's reading, then place a check in the box.

3. When supplies are listed as "**We provide:**" they are materials found in either your Microscopy Supplies Kit (**250-25**), the Advanced Dissection Kit with Specimens (**250-30**), or the Non-Consumable Supplies Kit (**NSK**). When supplies are listed as "**You provide:**" they are materials you can generally find around your home.

Vocabulary Terms

What is Life?

Criteria for life—(p. 1)

1. All life forms contain deoxyribonucleic acid, which is called DNA.

2. All life forms have a method by which they extract energy from the surroundings and convert it into energy that sustains them.
3. All life forms can sense changes in their surroundings and respond to those changes.
4. All life forms reproduce.

Energy Conversion and Life

Metabolism—(p. 2) The sum total of all processes in an organism that convert energy and matter from outside sources and use that energy and matter to sustain the organism's life functions.

Anabolism—(p. 2) The sum total of all processes in an organism which use energy and simple chemical building blocks to produce large chemicals and structures necessary for life.

Catabolism—(p. 2) The sum total of all processes in an organism which break down chemicals to produce energy and simple chemical building blocks.

Photosynthesis—(p. 3) The process by which green plants and some other organisms use the energy of sunlight and simple chemicals to produce their own food.

Herbivores—(p. 3) Organisms that eat only plants.

Carnivores—(p. 3) Organisms that eat only organisms other than plants.

Omnivores—(p. 3) Organisms that eat both plants and other organisms.

Producers—(p. 4) Organisms that produce their own food.

Consumers—(p. 4) Organisms that eat living producers and/or other consumers for food.

Decomposers—(p. 5) Organisms that break down the dead remains of other organisms.

Autotrophs—(p. 6) Organisms that are able to make their own food.

Heterotrophs—(p. 6) Organisms that depend on other organisms for their food.

Sensing and Responding to Change

Receptors—(p. 7) Special structures that allow living organisms to sense the conditions of their internal or external environment.

All Life Forms Reproduce

Asexual reproduction—(p. 7) Reproduction accomplished by a single organism.

Sexual reproduction—(p. 7) Reproduction that requires two organisms.

Inheritance—(p. 7) The process by which physical and biological characteristics are transmitted from the parent (or parents) to the offspring.

Mutation—(p. 8) An abrupt and marked change in the DNA of an organism compared to that of its parents.

The Scientific Method

Hypothesis—(p. 9) An educated guess that attempts to explain an observation or answer a question.

Theory—(p. 9) A hypothesis that has been tested with a significant amount of data.

Scientific law—(p. 10) A theory that has been tested by and is consistent with generations of data.

Limitations of the Scientific Method

Microorganisms—(p. 13) Living creatures that are too small to see with the naked eye.

Spontaneous Generation: The Faithful Still Cling To It!

Abiogenesis—(p. 15) The idea that long ago, very simple life forms spontaneously appeared through chemical reactions.

Characteristics Used to Separate Organisms into Kingdoms

Prokaryotic cell—(p. 18) A cell that has no distinct, membrane-bound organelles.

Eukaryotic cell—(p. 18) A cell with distinct, membrane-bound organelles.

Membrane-bound organelle—(p. 18) A structure within a cell that performs a specific task.

The Definition of Species

Species—(p. 21) A unit of one or more populations of individuals that can reproduce under normal conditions, produce fertile offspring, and are reproductively isolated from other such units. ■

Week 18—Schedule Module 8

Date:	Day 1 <small>86</small>	Day 2 <small>87</small>	Day 3 <small>88</small>	Day 4 <small>89</small>	Day 5 <small>90</small>
Science					
Exploring Creation with Biology	Study Guide p. 259 #1(a–h); 2–3 (Review)	Study Guide pp. 259–260 #1(i–m); 4–11 (Review)	Study Guide pp. 259–260 #1(n–u); 12–18 (Review)	pp. 559–560 Summary of Module 8 (Review)	Module 8 Test
Exploring Creation with Biology—CD ROM	Study Guide #1(a–h); 2–3 (Review)	Study Guide #1(i–m); 4–11 (Review)	Study Guide #1(n–u); 12–18 (Review)	Summary of Module 8 (Review)	Module 8 Test
Multimedia Companion CD					
On Your Own					
Experiments	Continue 8.4	Continue 8.4	Continue 8.4	Continue 8.4	Write up Experiment 8.4
Vocabulary					
Supplies	We Provide: no experiment scheduled this week.				
Shopping/Planning List	For next week: no experiments scheduled for Module 9.				

Other Notes

Week 36—Schedule Module 16

Date:	Day 1 <small>176</small>	Day 2 <small>177</small>	Day 3 <small>178</small>	Day 4 <small>179</small>	Day 5 <small>180</small>
Science					
Exploring Creation with Biology	pp. 520–526	Study Guide pp. 529–530 #1(a–f); 2–8 (Review)	Study Guide pp. 529–530 #1(g–i); 9–23 (Review)	pp. 575–576 Summary of Module 16 (Review)	Module 16 Test
Exploring Creation with Biology—CD ROM	"Classification in Class Mammalia" through "Summing It ALL Up"	Study Guide #1(a–f); 2–8 (Review)	Study Guide #1(g–i); 9–23 (Review)	Summary of Module 16 (Review)	Module 16 Test
Multimedia Companion CD	Related to Figure 16.7				
On Your Own	16.23–16.25				
Experiments					
Vocabulary					
Supplies	We Provide: no experiments scheduled for this week.				
Shopping/Planning List					

Other Notes

You're All Done!