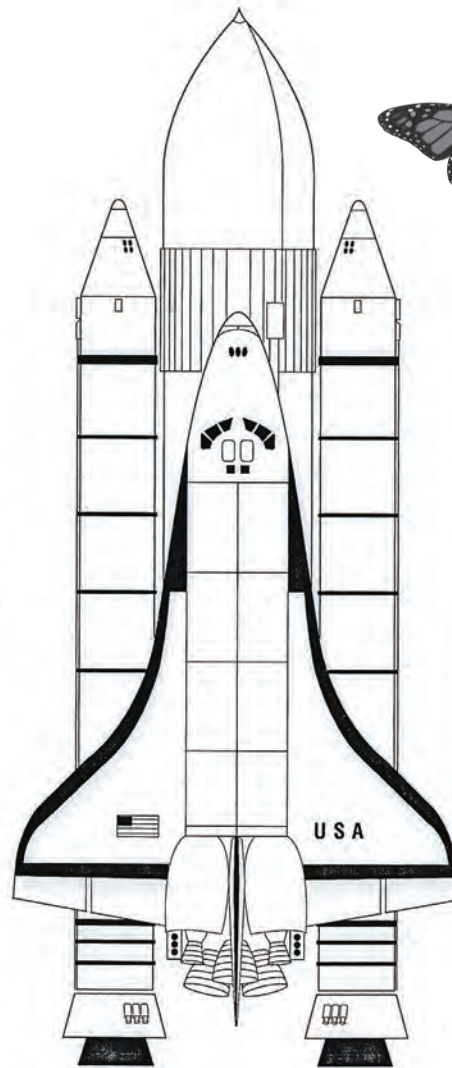
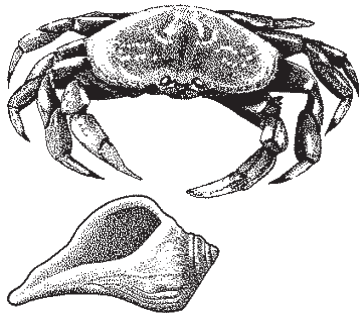
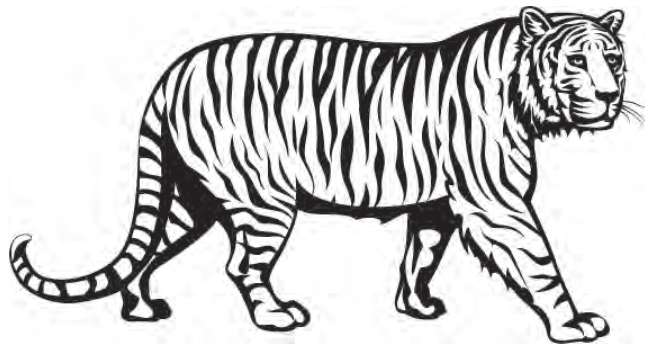

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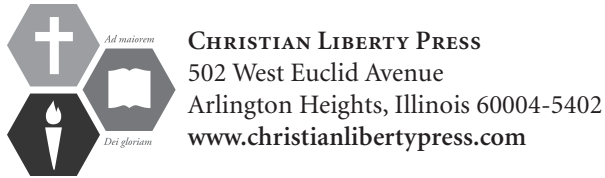
Fourth Edition



ANSWER KEY

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Table of Contents

Introduction	v
Text Key	1
Chapter 1: Investigating Nature	1
<i>Comprehension Check 1.1</i>	1
<i>Comprehension Check 1.2</i>	1
<i>Comprehension Check 1.3</i>	1
<i>Comprehension Check 1.4</i>	1
<i>Comprehension Check 1.5</i>	1
<i>Comprehension Check 1.6</i>	2
<i>Comprehension Check 1.7</i>	2
<i>Comprehension Check 1.8</i>	2
Chapter Checkup	3
Chapter 2: The Amazing Mammals	4
<i>Comprehension Check 2.1</i>	4
<i>Comprehension Check 2.2</i>	5
<i>Comprehension Check 2.3</i>	5
<i>Comprehension Check 2.4</i>	5
<i>Comprehension Check 2.5</i>	6
<i>Comprehension Check 2.6</i>	6
<i>Comprehension Check 2.7</i>	6
<i>Comprehension Check 2.8</i>	7
<i>Comprehension Check 2.9</i>	7
<i>Comprehension Check 2.10</i>	7
<i>Comprehension Check 2.11</i>	7
Chapter Checkup	8
Chapter 3: Let There be Light	9
<i>Comprehension Check 3.1</i>	9
<i>Comprehension Check 3.2</i>	10
<i>Comprehension Check 3.3</i>	10
<i>Comprehension Check 3.4</i>	10
<i>Comprehension Check 3.5</i>	11
<i>Comprehension Check 3.6</i>	11
<i>Comprehension Check 3.7</i>	11
Chapter Checkup	11
Chapter 4: Treasures of the Earth	13
<i>Comprehension Check 4.1</i>	13
<i>Comprehension Check 4.2</i>	13
<i>Comprehension Check 4.3</i>	13
<i>Comprehension Check 4.4</i>	13
<i>Comprehension Check 4.5</i>	13
<i>Comprehension Check 4.6</i>	14
<i>Comprehension Check 4.7</i>	14
Chapter Checkup	14

Chapter 5: The Living Sea15

Comprehension Check 5.1 15

Comprehension Check 5.2 15

Comprehension Check 5.3 16

Comprehension Check 5.4 16

Comprehension Check 5.5 16

Comprehension Check 5.6 17

Comprehension Check 5.7 17

Comprehension Check 5.8 17

Chapter Checkup..... 17

Chapter 6: Energy and Engines.....19

Comprehension Check 6.1 19

Comprehension Check 6.2 19

Comprehension Check 6.3 19

Comprehension Check 6.4 19

Comprehension Check 6.5 20

Comprehension Check 6.6 20

Comprehension Check 6.7 20

Comprehension Check 6.8 20

Comprehension Check 6.9 21

Chapter Checkup..... 21

Chapter 7: Wonders of the Sky22

Comprehension Check 7.1 22

Comprehension Check 7.2 23

Comprehension Check 7.3 23

Comprehension Check 7.4 23

Comprehension Check 7.5 23

Comprehension Check 7.6 24

Chapter Checkup..... 24

Chapter 8: Watching the Weather.....25

Comprehension Check 8.1 25

Comprehension Check 8.2 25

Comprehension Check 8.3 26

Comprehension Check 8.4 26

Comprehension Check 8.5 26

Comprehension Check 8.6 27

Chapter Checkup..... 27

Chapter 9: A Variety of Vertebrates29

Comprehension Check 9.1 29

Comprehension Check 9.2 29

Comprehension Check 9.3 29

Comprehension Check 9.4 30

Comprehension Check 9.4 and 9.5 30

Comprehension Check 9.6 30

Comprehension Check 9.7 31

Comprehension Check 9.8 31

Chapter Checkup..... 31

Introduction

This answer key for *Investigating God's World*, Fourth Edition (copyright © 2009 A Beka Book), was developed by the staff of Christian Liberty Press to help the instructor be as successful as possible in teaching this course on science. We have provided sample answers for the Chapter Checkup exercises, which are required of students who are enrolled in Christian Liberty Academy School System (CLASS), as well as the optional Comprehension Check exercises.

This key should be used by the instructor to review the student's daily work. As such, it is for the instructor's use alone. Sample answers have been provided for the text exercises, which we believe accurately reflect the textual information. We have also given occasional teacher instructions in italics in the key. When the phrase *Answers will (or may) vary* is used, this means that there is not necessarily one correct answer, but the student must relate his answers to the questions and text material as much as possible.

This key should also be used by the instructor to help guide the student in answering the questions. The instructor should first read the answers to the questions, and then direct the student accordingly if he has any problems. The answers in this key should be considered as examples; the student does not have to use exactly the same wording in his sentences, as long as the same information is given.

May God grant you wisdom and diligence as you seek to teach your student about our Lord's creation.

Text Key

CHAPTER 1

Comprehension Check 1.1 (page 3)

1. Science is a search for the laws of nature and for the ways to use them for the benefit of mankind.
2. Scientists are inquisitive and begin their work by looking closely at things around them. Scientists want to know the laws these objects obey and how they all fit together in God's creation. They ask questions about the things they observe. To answer their questions they search for clues and examine evidence.

Comprehension Check 1.2 (page 7)

1. The four basic tools available to us to investigate nature are senses, intelligence, books, and equipment.
2. To be safe, one sense that you should usually not use is your sense of taste.

Comprehension Check 1.3 (page 11)

1.
 - The **queen** is a female bee that mates and lays eggs.
 - **Pollen** is the yellow "dust" that flowers use in producing seeds.
 - The **worker** is a female bee that does not mate and lay eggs.
 - **Nectar** is a sweet liquid that flowers make to attract insects.
 - **Pollination** is the transfer of pollen from male parts to female parts of plants.
 - A **drone** is a male bee that does no work and does not have a stinger.
2. The brightness of the goldenrod is helpful to insects because it is very visible and attracts them so they can get nectar.
3. The goldenrod's brightness is helpful to itself because it needs to attract insects for pollination.
4. Honeybees survive in winter by consuming stored food, staying awake in their hive, keeping close together, and moving their wings for warmth.

Comprehension Check 1.4 (page 14)

1. **Hibernate** means to sleep through the winter. An **ovipositor** is the egg-laying part of an insect.
2. You should remove a bee's stinger by scraping it with your fingernail (do not pull a stinger out with tweezers).
3. Only the female insects (including bees) sting.
4. The yellow jacket is the stinging insect that makes an underground nest of paperlike material.
5. You can prevent bee stings by (1) staying away from bee hives; (2) not shooing bees away—for this makes them angry; (3) being careful to avoid bees while mowing the lawn, pulling weeds, or cutting vines; and (4) not going barefoot.

Comprehension Check 1.5 (page 18)

1.
 - **Caterpillars** are the larvae of butterflies and moths.
 - A **food chain** is a series of plants and animals, each depending on the next for food. A food chain almost always begins with a green plant.
 - A **larva** is an immature insect that does not look like the adult.
 - **Maggots** are the larvae of flies.
 - **Migrate** means to move from one place to another with the changing seasons.
 - **Mimicry** refers to the close resemblance of one plant or animal to another for some purpose.
 - A **predator** is an animal that captures and feeds upon other animals.
 - **Prey** is the animal that a predator eats. As a verb, prey means to capture and devour an animal.
2. Almost every food chain begins with a green plant because only green plants can make their own food.
3. God's protection of the viceroy butterfly is evidenced by her helpful dis-