Lesson Plan Overviews

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Lesson	TE pages	ST pages	AM pages	Objectives and Christian Worldview	Process Skills			
1	2–3	1–2	1	 Define <i>worldview</i> List characteristics of a Christian worldview Apply a Christian worldview to science 				
	Chapter 1: Living Things							
2	4-7	3–5	3	 Recognize the interrelationship of science concepts Explain that a wildlife manager uses wisdom Apply the concept of wisdom to each student's responsibilities God as source of all wisdom God's use of creation for His glory 				
3	8–11	6–9	4	 Identify the parts of an ecosystem Identify the basic needs of living things Recognize that basic needs are met through resources Name an example of competition People as God's special creation God's variety in creation God's provision for His creation 				
4	12–13		5–6	 Answers in Genesis Explain why it is necessary to look at the world with a biblical perspective Explain from the Bible the sources of food for both people and animals before the Fall Analyze different kinds of teeth through the lens of Scripture 				
5–6	14–17	10–13	7–8	 List ways that God provides food for plants and animals Describe how plants get food Identify characteristics animals use to get food Identify types of shelters animals use Describe how working together benefits some animals 				
7	18–19		9–10	Science Skill: A Science Experiment • Use a scientific method				
8–9	20–21	14–15	11–12	Activity: Copying Nature • Model different kinds of bird beaks • Relate the results to actual birds • Communicate information to other students God's provision for His creation Imitation of creation by people	Communicating Using models Inferring Classifying			
10–11	22–25	16–19	13–16	 Describe adaptations from a Christian worldview Identify camouflage, mimicry, migration, and hibernation as ways animals survive Name some examples of camouflage, mimicry, migration, and hibernation Consequences of sin on God's perfect creation The Flood's effect on the earth 				
12	26–27	20–21	17–18	Activity: Hiding and Finding Observe how camouflage works Record and interpret data 	Recording and interpreting data Using numbers Inferring Communicating			
13–14	28	22		 Exploration: Striving to Survive Research an endangered plant or animal Write about an endangered plant or animal 				

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				• Give an oral presentation with a visual People as stewards of God's creation	
15	29–31	23–25	19	 Recognize that each living thing has an effect on its environment Infer that increased development often results in decreased habitats for plants and animals Identify pollution as anything that makes the water, air, or land dirty <i>People as stewards of the earth's resources God's creation for mankind's enjoyment God's provision for His creation</i> 	
16	32	26	20	Chapter Review Recall concepts and terms from Chapter 1 Apply knowledge to everyday situations People as stewards of God's creation 	
17	32			Chapter 1 Test Demonstrate knowledge of concepts taught in Chapter 1 	
	•			Chapter 2: Insects and Spiders	
18	33	27	21	 List ways that a beekeeper uses wisdom Explain how beekeeping fits into a Christian worldview of science Defend the claim that keeping bees is an activity that pleases God 	
19	34–35	28–29	22	 Recognize that arthropods are one kind of invertebrate Explain why an insect is an arthropod Identify insects as the largest group of arthropods Identify parts of an insect 	
20–21	36–37	30–31	23–24	Exploration: Insect Collection Identify insects Record observations about insects Organize collected insects in a display 	
22-23	38–41	32–35	25–26	 List ways that God gives each insect what it needs to survive in its ecosystem Identify ways insects protect themselves Name insects that have chewing mouthparts Name insects that have sucking mouthparts 	
24–25	42-43	36-37	27-28	Activity: Amazing Discovery Make a model of an imaginary insect Apply information about insects and environments Use and define terms in context God's variety in creation People as God's image-bearers 	Defining operationally Making and using models Communicating
26–27	44-45	38–39	29–31	 Name two insects that go through incomplete metamorphosis Describe the stages of incomplete metamorphosis Name two insects that go through complete metamorphosis Describe the stages of complete metamorphosis 	
28	46–49	40-43	32	 Recognize that some insects live and work together in groups Describe some ways honeybees work together Compare different types of ants Name some jobs that members of an insect colony have God's perfect design 	
29–30	50–51	44–45	33–34	Activity: What's for Lunch? • Observe and compare the ants' responses to different foods Christians' use of science to show God's love to others	Observing Classifying Communicating

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31	52-53		35–38	Study Skill: PQ3R • Use the PQ3R method to read informational text	
32–33	54–57	46-49	39	 Compare the bodies of insects and spiders Describe some ways spiders get their food Identify two poisonous spiders God's design of the smallest creatures 	
34	58	50	40	Chapter Review Recall concepts and terms from Chapter 2 Apply knowledge to everyday situations People as stewards of God's creation 	
35	58			Chapter 2 Test Demonstrate knowledge of concepts taught in Chapter 2 	
	I	1		Chapter 3: Plants	I
36	59	51	41	 Describe the goals of a landscape architect Explain how a landscape architect reaches these goals Justify the work of a landscape architect from Genesis 1:28 	
37–38	60–63	52–55	42	 Identify and describe parts of a flower Explain when pollination occurs Name three ways plants can be pollinated God's creation for the enjoyment of people God's provision for His creation People as stewards of God's creation 	
39	64–66	56–58	43-44	 Recognize that a fruit is the part of a plant that contains seeds Name four ways seeds can be dispersed Identify the parts of a seed Seeds as an illustration of God's design 	
40-41	67	59		Exploration: Find that Seed! • Observe seeds in fruits • Record information about seeds	
42	68–70	60-62	45–49	 Identify some conditions a seed needs to germinate Describe the life cycle of a plant Name some ways plants reproduce without seeds God's Word as the only true source of guidance Human life as an illustration of the Bible's pattern of sowing and reaping 	
43	71–72		50	Science Skill: Measuring Mass and Volume Measure mass to the nearest gram Measure volume using milliliters 	
44	73–74	63–64	51–52	 Activity: Destination Germination Experiment to test a hypothesis Infer conditions needed for green beans to germinate People's responsibility to glorify God 	Hypothesizing Observing Inferring Identifying and controlling variables Collecting and recording data
45–46	75–77	65–67	53–54	 Describe some ways botanists classify plants Identify a fern as a plant that reproduces by spores Differentiate between the locations of seeds in flowering plants and in conifers God's perfect design 	
47–48	78–79	68–69	55–56	Activity: Classifying Leaves Classify leaves by chosen criteria 	Classifying Observing

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				Communicate classification criteria to others	Communicating
49	80	70	57	Chapter Review • Recall concepts and terms from Chapter 3 • Apply knowledge to everyday situations Interrelationship of parts of creation	
50	80			 Chapter 3 Test Demonstrate knowledge of concepts taught in Chapter 3 	
		I		Chapter 4: Forces and Machines	
51	82-85	71–73	59	 Recognize the interrelationship of science concepts Explain how movers use machines to make work easier and safer Christians' use of science to show God's love to others 	
52–53	86-89	74–77	60	 Identify gravity and friction as forces Name examples of how friction is helpful Describe relationships between forces and movement Describe how the amount of work done is related to the amount of force and distance 	
54–55	90–91		61–62	Exploration: Make a Machine Design a plan to solve a problem Apply knowledge of simple machines Summarize the function of the diagram in writing Produce a diagram Christians' use of science to show God's love to others 	
56–57	92–95	78–81	63–64	 Explain how simple machines make work easier Differentiate between the effort and the load Describe kinds of levers Name examples of different levers 	
58	96–97	82-83	65–66	 Activity: How Much Effort? Experiment to determine how the position of the fulcrum affects the amount of effort Predict how many pennies are needed to balance a lever when the fulcrum is in given positions Christians' use of science to show God's love to others 	Predicting Experimenting Identifying variables Inferring
59	98–101	84–87	67	 Use a wheel and axle to show how distance and force are related Recognize that gears are a special kind of wheel and axle Identify where the load and effort are when a fixed pulley is used Explain how adding movable pulleys to a block and tackle decreases the effort needed Name some examples of wheel and axles and pulleys People created in God's image 	
60	102–3	88-89	68–70	 Identify inclined planes, screws, and wedges as simple machines Name examples of inclined planes, screws, and wedges People as stewards of God's creation Imitation of creation by people People to serve God with work 	
61	104–5		71–72	 Answers in Genesis Conclude from the Bible record that ancient people were intelligent Infer the possible roles of simple machines in the construction of Noah's ark Describe the ark as a picture of Jesus Christ and salvation 	
62	106–7	90–91	73	Activity: Vroom, Vroom! • Infer the relationship between force and work	Identifying and controlling variables

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				 Compare the results of changing variables 	Hypothesizing Experimenting Inferring
63	108	92	74	 Chapter Review Recall concepts and terms from Chapter 4 Apply knowledge to everyday situations 	
64	108			Chapter 4 Test Demonstrate knowledge of concepts taught in Chapter 4 	
				Chapter 5: Electricity and Magnetism	
65	109	93	75	 Describe how a power-line worker works safely Defend the claim that we should be concerned about the safety of other people Create some rules concerning safety around electricity for your class <i>Christians' use of science to show God's love to others</i> 	
66–67	110–13	94–97	76	 Identify that all matter is made up of small particles Identify when an object is positively or negatively charged or neutral Describe static electricity Describe what happens when different charges are brought near each other People as stewards of God's creation 	
68–69	114–17	98–101	77-80	 Differentiate between current electricity and static electricity Contrast conductors, insulators, and resistors Differentiate between a series circuit and a parallel circuit Identify the two parts of a circuit Christians' use of science to show God's love to others People as stewards of God's creation 	
70	118–19	102-3	81	 Activity: Conductors Needed Predict whether items are conductors or insulators Form a generalization about the types of materials that are conductors 	Defining operationally Predicting Experimenting Recording data
71	120-22	104–6	82	 Form generalizations about the types of materials that are attracted to magnets Identify the place on a magnet where magnetism is the strongest Identify uses of magnets People as stewards of God's creation 	
72–74	123-25	107	83-84	 Study Skill: Keyword Search Understand that the words chosen to type into a search engine have a direct connection to the sources that are suggested by their results Practice converting questions to a set of keywords for use in developing queries Exploration: Magnetic Search Identify search terms and create queries for research 	
75	126–27	108-9	85-86	 Activity: How Strong Is Your Magnet? Test the strengths of the magnetic fields of magnets Test the fact that the magnetic fields are strongest at the poles of a magnet 	Recording data Experimenting Observing Inferring Defining operationally
76	128–31	110–13	87-89	 Explain why electromagnets are temporary magnets List some uses for electromagnets Describe two relationships between magnetism and electricity Describe how a generator works Interrelationship of the parts of creation testifies of God's design God-given curiosity of people 	

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				Responsibility of people to glorify God	
77	132	114	90	Chapter Review Recall concepts and terms from Chapter 5 Apply knowledge to everyday situations 	
78	132			Chapter 5 Test Demonstrate knowledge of concepts taught in Chapter 5 	
				Chapter 6: Light	I
79	133	115	91	 Defend the importance of work for a Christian Describe ways that a photographer uses light Create images using more and less light People to serve God with work 	
80–81	134–37	116–19	92-93	 Recognize that light travels in a straight line Identify luminous objects Differentiate between transparent, translucent, and opaque objects God as Master of creation God's provision for His creation Jesus as the true light 	
82	138–39	120–21	94–96	 Identify the location of a light source based on the position of a shadow Explain how shadows can be used to tell time God as Master of creation 	
83	140-41			Science Skill: Measuring Length Measure length to the nearest centimeter 	
84	142-43	122–23	97–98	 Activity: Shadows Big and Small Demonstrate that light travels in straight lines Summarize the relationship between a light source and shadows produced 	Inferring Measuring Experimenting Collecting and recording data
85–86	144–47	124–27		 List the colors of the visible spectrum Explain why an object appears to be a certain color Explain why a straight object in a glass of water may appear bent God's provision for His creation God keeps His promises 	
87	148–51	128–31	99–102	 Identify the parts of the eye and their functions Sequence how light travels through the eye Differentiate between farsighted vision and nearsighted vision Compare how light is refracted in different kinds of lenses Christians' use of science to show God's love to others 	
88–89	152	132		 Exploration: I Spy My Eye Make a model of an eye Demonstrate knowledge of the parts of an eye Wonder of God's creation 	
90	153	133	103	 Exploration: Seeing Things More Closely Observe an object through several magnifying glasses Draw a detailed representation of an object Compare and contrast observations 	
91	154	134	104	Chapter ReviewRecall concepts and terms from Chapter 6Apply knowledge to everyday situations	

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92	154			Chapter 6 Test Demonstrate knowledge of concepts taught in Chapter 6 	
				Chapter 7: The Moon	
93	156–59	135–37	105	 Describe conditions on the moon Explain what should be included in the design of a space suit to make it usable and safe Defend the importance of designing safe, usable space suits <i>People as God's image-bearers</i> <i>Christians' use of science to show God's love to others</i> 	
94–95	160–63	138–41	106	 Describe the moon's properties Compare and contrast the moon and the earth Recognize the effect of gravity on mass and weight Explain the moon's light God's Word as the source of truth 	
96–97	164–65	142-43	107	Activity: Moon Math Measure weight and distance Calculate moon measurements from earth measurements Compare the effects of the moon's gravity with the effects of the earth's gravity 	Measuring and using numbers Making and using models Inferring Collecting and recording data
98	166–68	144–46	108	 Identify the landforms on the moon's surface Define mare, rille, crater, and ray 	
99–100	169	147		 Exploration: Moon Model Make a model of the moon's surface Demonstrate an understanding of the terms related to the moon's surface 	
101–2	170–71	148–49	109	 Explain the revolution and rotation of the moon Define <i>revolution</i> and <i>rotation</i> God as Master of creation 	
103–4	172–73	150–51	110-12	 Label the phases of the moon on a diagram Differentiate between waxing and waning phases Describe the phases of the moon 	
105–6	174–75	152–53	113–14	Activity: Moonwatchers Observe the moon Identify the phases of the moon 	Observing Inferring Recording data Defining operationally
107–8	176–77	154–55	115–16	 Identify the relationships of the sun, moon, and earth Distinguish between a lunar eclipse and a solar eclipse Label a solar eclipse and a lunar eclipse on diagrams 	
109	178–81	156–59	117	 State that God created the moon Describe the two kinds of science Describe one theory about how the moon began Describe what a Christian believes about the moon's origin Bible as the final authority God's use of creation for His glory 	
110	182	160	118	 Chapter Review Recall concepts and terms from Chapter 7 Apply knowledge to everyday situations Creation of moon and opposing theories 	
111	182			Chapter 7 TestDemonstrate knowledge of concepts taught in Chapter 7	

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	Chapter 8: Water and Oceans								
112	183	161	119	 Describe what a deep-sea fishing boat captain needs to know about the weather, tides, and currents Recognize the idea that a boat captain uses his knowledge to help others Christians' use of science to show God's love to others 					
113	184–87	162–65	120	 Recognize that almost three-fourths of the earth's surface is covered with water Describe the water found on the earth Identify gravity as the force that pulls fresh water toward the ocean Label and describe the parts of the water cycle God as Master of creation 					
114	188–89	166–67	121-22	 Activity: The Great Vapor Race Discover how the amount of surface area affects the speed at which water evaporates 	Measuring Hypothesizing Observing Inferring Collecting and recording data				
115-–16	190–93	168–71	123–26	 Explain what causes a tide Explain what causes a wave Identify three things that determine the size of a wave God as Master of creation Effect of sin on God's creation 					
117–18	194–97	172–75	127	 Identify the two things that control deep ocean currents Identify what causes surface currents Identify the Gulf Stream as a warm current Recognize that surface currents can affect climates 					
119–20	198–202	176–80	128	 Identify and describe the four main oceans Identify the largest ocean and the smallest ocean Describe how the ocean floor is similar to the rest of the earth's surface Identify plankton as a main food source for some ocean animals God's variety in creation 					
121	203-4		129-30	 Answers in Genesis Recognize that God created animals in distinct kinds such as whales and dogs Compare the physical characteristics of a dog and a whale Describe the features that would have to change for a dog to turn into a whale Use the Bible to evaluate the hypothesis that whales evolved from land animals <i>Truth of the Bible opposing evolution</i> 					
122–23	205	181	131	Exploration: Marine Mobile Research information about an ocean animal and its environment Make a mobile to present information about an ocean animal 					
124	206–7	182–83	132-33	Activity: Mapping the Depths Use a graph to map the floor of a model ocean Christians' use of science to show God's love to others 	Making and using models Measuring Inferring Collecting and recording data				
125	208	184	134	Chapter Review Recall concepts and terms from Chapter 8 Apply knowledge to everyday situations Christians' use of science to show God's love to others 					

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126	208			Chapter 8 Test	
				Demonstrate knowledge of concepts taught in Chapter 8 Chapter 9: Weathering and Erosion	
127	210-13	185–87	135	 Recognize the interrelationship of science concepts Describe the problem erosion causes for road construction Explain the job of an erosion-control engineer Support the claim that erosion control is a way to help other people God's provision for His creation People as stewards of God's creation Christians' use of science to show God's love to others 	
128	214–18	188–92	136	 Identify the changes that result from volcanoes and earthquakes Identify natural causes of weathering Recognize various landforms God's use of creation for His glory The Flood's effect on the earth 	
129	219–21	193–95	137–38	 Identify characteristics of soil Describe the three main layers of soil 	
130	222-23	196–97	139–40	 Activity: Investigating Soils Compare and contrast two soil samples Demonstrate a knowledge of characteristics of soil types 	Observing Measuring Classifying Recording and interpreting data Communicating
131	224–28	198–202	141–42	 Identify water and wind as causes of erosion Identify the effects of water and wind deposition Summarize how a delta is formed The Flood and opposing theories 	
132	229-30		143–44	 Answers in Genesis Describe how rock layers can bend without breaking Connect the description of the Flood to the layers of rocks on the earth Compare the evolutionary explanation for bent rock layers with the biblical explanation based on the Flood Predict the outcome of the <i>Bending Rock</i> demonstration <i>God's Word as the source of truth</i> 	
133–34	231	203		Exploration: Controlling Erosion • Identify and observe local erosion • Determine the cause of erosion • Design a plan to prevent or stop erosion	
135	232-33	204–5	145–46	 Activity: Observing Erosion Predict which soil will erode more easily Observe the erosion of different soils 	Predicting Measuring Experimenting Controlling variables Observing
136	234–37	206–9	147	 Identify kinds of erosion caused by gravity Identify characteristics of glaciers Summarize how the activities of people can cause erosion God's provision for His creation People as stewards of God's creation 	
137	238	210	148	 Chapter Review Recall concepts and terms from Chapter 9 Apply knowledge to everyday situations 	

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138	238			Chapter 9 Test	
				Demonstrate knowledge of concepts taught in Chapter 9	
				Chapter 10: The Earth's Resources	
139	239	211	149	 Describe what knowledge the farmer needs to have to produce the best crops Explain what Isaiah 28:24–26 says about farming Support the truth that the source of all knowledge is God <i>God's Word as the source of truth People to serve God with work</i> 	
140	240-43	212-15	150	 Differentiate between renewable and nonrenewable resources Recognize that soil is a renewable natural resource Identify ways that farmers maintain soil People as stewards of God's creation God's provision for people Christians' use of science to show God's love to others 	
141	244–45	216–17	151–52	Activity: Packing a Landfill • Determine which packing material decomposes best in water • Decide which packing material would be least harmful for a landfill	Hypothesizing Observing Inferring Defining operationally
142	246–49	218–21	153–54	 Explain why water is our most important natural resource Explain ways we must conserve water Identify ways water can become polluted Explain what can be done to lessen the effects of harvesting trees People as stewards of God's creation Christians' use of science to show God's love to others 	
143	250–53	222-25	155–56	 Recognize that water energy, wind energy, and solar energy are renewable energy resources Name an example of how each type of energy resource is used Explain how fossil fuels form Describe how fossil fuels can be harmful God's provision for people God's control of the earth's resources 	
144–45	254	226	157	Activity: How Much Trash? • Record the amount of items discarded in one day • Sort reusable items from trash • Determine possible new uses for reusable items	Collecting and recording data Observing Classifying Communicating
146–47	255-60	227-32	158	 Identify advantages and disadvantages of each energy resource Recognize that people have the responsibility to be good stewards List ways to reduce, reuse, or recycle resources People as stewards of God's creation People to serve God with work 	
148–49	261	233	159	 Exploration: Sorting Symbols Identify differences between the recycling symbols for different kinds of plastic Find and sort plastic items according to their recycling symbols 	
150	262	234	160	Chapter Review • Recall concepts and terms from Chapter 10 • Apply knowledge to everyday situations People as stewards of God's creation	
151	262			Chapter 10 Test Demonstrate knowledge of concepts taught in Chapter 10 	

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Chapter 11: Digestion							
152	264–67	235-37	161	 Recognize the interrelationship of science concepts Describe how a camp nutritionist uses knowledge and skills to provide healthy menus Explain how being a camp nutritionist is one way to love your neighbor Create a healthy and tasty menu for a day at camp Wonder of God's creativity in human design 			
153	268–71	238-41	162–63	 Identify the parts of the digestive tract Describe the different jobs of saliva, the teeth, and the tongue List the four basic tastes God's provision for people 			
154–55	272-73	242-43	164–68	Activity: Designing an Experiment • Design and conduct an experiment • Recognize how the senses of smell and taste are related	Experimenting Predicting Observing Inferring Identifying and controlling variables Recording data		
156–57	27477	244–47	169–70	 Identify the tubes connected to the throat Explain how peristalsis moves food Describe how the stomach works on food mechanically and chemically <i>Christians showing a loving spirit</i> 			
158	278–81	248–51		 Identify the small intestine as the part of the digestive tract where nutrients are absorbed Identify the large intestine as the last part of the digestive tract that absorbs water and salts Identify three organs that help with digestion but are not part of the digestive tract Recognize that insulin is produced by the pancreas Describe two jobs of the liver 			
159	282-83	252–53	171-72	 Activity: Starchy Foods Use iodine to identify foods that contain starch Infer how the darkness of the iodine tells whether a food contains a greater or lesser amount of starch Christians' use of science to show God's love to others 	Classifying Predicting Experimenting Observing Inferring Recording data		
160–61	284-88	254–58	173–75	 Describe some nutrients needed by the body Identify foods that contain those nutrients Recognize the food pyramid as a guide for choosing foods to eat A Christian's body as God's temple God's provision for people God's command of remembrance Christian fellowship honors God 			
162–63	289	259	176–77	 Exploration: What's on My Plate? Track what is eaten and categorize the foods into the appropriate food groups Use MyPlate to make informed food choices 			
164	290	260	178	 Chapter Review Recall concepts and terms from Chapter 11 Apply knowledge to everyday situations 			
165	290			Chapter 11 Test • Demonstrate knowledge of concepts taught in Chapter 11			

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166	291	261	179	 Describe the kind of knowledge a physical therapist should have Explain how a physical therapist can use this knowledge to help others Explain why the work of a physical therapist is important to Christians Wonder of God's creativity in human design 	
167–68	292–97	262–67		 Identify several bones in the body Recognize that the skeleton is the frame that supports the body List four purposes for bones Recognize that bones consist of several layers Name three minerals that are important for healthy bones <i>People as God's image-bearers</i> 	
169–70	298-300	268–70	180–81	 Differentiate between immovable and movable joints Identify the movement of each kind of joint Identify the location and function of ligaments Identify the location and function of cartilage 	
171	301	271		Activity: X-ray Vision! • Demonstrate how the bones in the hand and wrist move • Recognize that joints work together Christians' use of science to show God's love to others	Making and using models Observing Inferring
172–73	302–3	272-73	182	Activity: Moving Muscles Make a model Observe how bones and muscles work together Wonder of God's creativity in human design 	Inferring Making and using models Observing
174–75	304–7	274–77	183	 Describe how muscles work Explain how muscles attach to bones and other muscles Differentiate between voluntary and involuntary muscles Identify examples of each type of muscle Wonder of God's creativity in human design 	
176	308-9		184–85	 Answers in Genesis Define <i>biomimicry</i> Compare the structure of the femur to the structure of the Eiffel Tower Describe how observing living things can lead to designing helpful objects Praise God for His design in nature 	
177	310-12	278–80		 Recognize that physical health is related to the kinds of foods eaten Identify some vitamins and minerals needed by the body Differentiate between a strain and a sprain God's provision for people God's perfect creation God as Master of creation 	
178	313	281	186–87	 List ways that God's design is evident in His creation Describe how all creation reflects God's design Relate key topics in the book to creation People to serve God with work Interrelationship of the parts of creation God's creativity in, design of, and control over all things 	
179	314	282	188	 Chapter Review Recall concepts and terms from Chapter 12 Apply knowledge to everyday situations 	
180	314			Chapter 12 Test Demonstrate knowledge of concepts taught in Chapter 12 	