# **TEACHER GUIDE**

4th-6th Grade

Includes Student Worksheets

Supply List

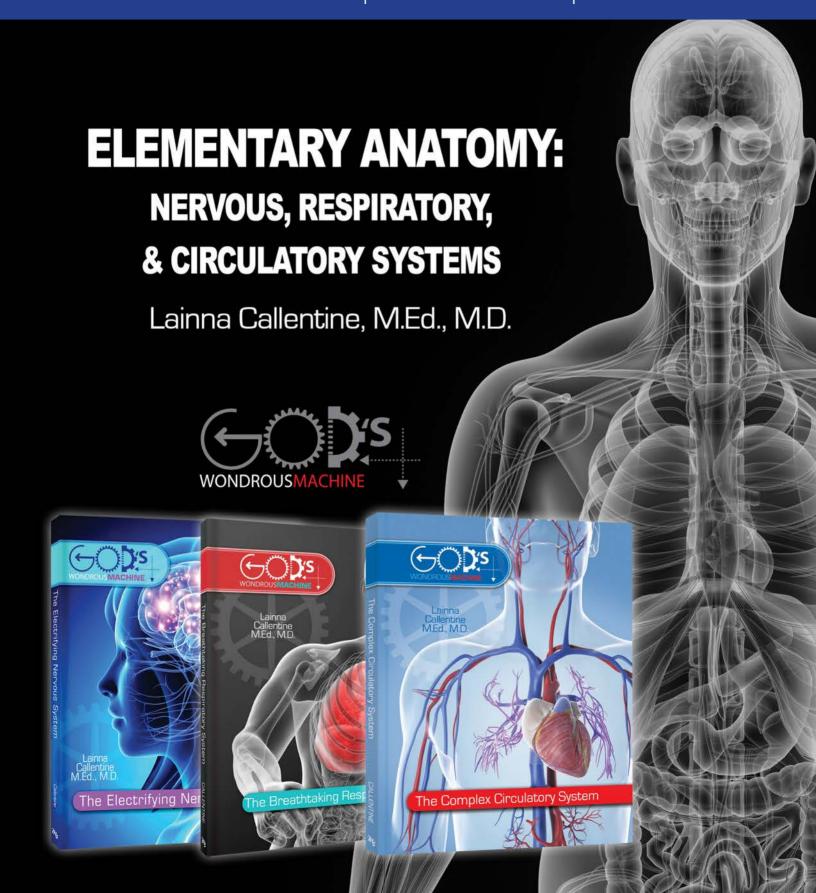
Weekly Lesson Schedule



Science







# **TEACHER GUIDE**

4th-6th Grade

Includes Student Worksheets

Science



Weekly Lesson Schedule



Supply List



Activities Answer Key <a href="#"> ## Tests</a>

# **Elementary Anatomy:** Nervous, Respiratory, & **Circulatory Systems**



First printing: April 2016

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## **Using This Teacher Guide**

**Features:** The suggested weekly schedule enclosed has easy-to-manage lessons that guide the reading, worksheets, and all assessments. The pages of this guide are perforated and three-hole punched so materials are easy to tear out, hand out, grade, and store. Teachers are encouraged to adjust the schedule and materials needed in order to best work within their unique educational program.

Lesson Scheduling: Students are instructed to read the pages in their book and then complete the corresponding section provided by the teacher. Assessments that may include worksheets, activities, quizzes, and tests are given at regular intervals with space to record each grade. Space is provided on the weekly schedule for assignment dates, and flexibility in scheduling is encouraged. Teachers may adapt the scheduled days per each unique student situation. As the student completes each assignment, this can be marked with an "X" in the box.

	Approximately 30 to 45 minutes per lesson, four days a week
	Includes answer keys for worksheets and tests.
	Worksheets for each section. Additional teaching material available as a download. http://www.masterbooks.com/free-downloads
žØ	Tests are included to help reinforce learning and provide assessment opportunities.
	Designed for grades 4 to 6 in a one-year science course

## Course Objectives: Students completing this course will

- ✓ Investigate the main areas and structures of the brain and what important role each plays in making the body function
- ✓ Evaluate awesome examples of God's creativity in both the design and precision of human anatomy
- Review a timeline of important discoveries and innovators, as well as key anatomical terms and concepts
- Explore the human body's respiratory system, focused on structures, function, diseases, and God's efficient and effective designs

- ✓ Learn about the mechanics of the circulatory system, how it transports nutrients, blood, chemicals, and more to cells within the body
- ✓ Identify important innovations that help professionals understand the mechanisms of our lungs, sinus cavities, and diaphragm
- ✓ Demonstrate vital facts about why you sleep, what foods can superpower your brains functions, and how it controls the wondrous machine known as your body!

## **Course Description**

This series delights in sharing the truth to children of how they are wonderfully made! Beyond the basics of how and why the body works as it does, it is important to share how the amazing and deliberate design of their bodies enables it to function as it should, just as God meant for it to. Utilizing three books from pediatrician and instructor Dr. Lainna Callentine, students will learn about the complex circulatory system, the electrifying nervous system, and the breathtaking respiratory system, with features that include instructional guidance on the eight areas of intelligence to help students of all learning styles. This includes designated levels and pacing suggestions, and it should be noted that all activities can be used at any level.

Additional organizational material can be downloaded from; http://www.masterbooks.com/free-downloads.

You will find activities geared to the particular level of your student. Levels 1, 2, and 3 charts outline activities that pertain to the particular types of intelligences. Each of the activities and worksheets in this guide have been identified by the various learning styles. Many of these activities can be designated in multiple categories. Remember this is just a guide. The activities can be designated in other ways.

### **Optional Science Lab**

Hands-on science kits are available with each unit. *These lab kits are optional, and are not an integral part of completing the course.* They are in no way mandatory to enjoy the "God's Wondrous Machine" series. The kits include dissection specimens and materials to do several of the activities and are available from:

www. Sciexperience.com



**Dr. Lainna Callentine**, MEd, MD, is a physician, instructor, writer, speaker, and creator at Sciexperience, as well as volunteering her services at a clinic that serves the uninsured in the Chicago suburbs. She affirms the clinic's motto from Galatians 5:13, "serving one another in love" and left formal medicine in the ER to homeschool her three children and pursue her passion in teaching.

## First Semester Suggested Daily Schedule

Date	Day	Assignment	Due Date	√ Gı	rade
		First Semester–First Quarter			
	Day 1	Read pages 7–9 of Electrifying Nervous System (ENS)			
Week 1	Day 2	Read pages 10–11 (ENS) • Somplete Activity 1 pages 25–32; Practice sounding out the words and reviewing the vocabulary flash cards			
WEEK 1	Day 3	Read pages 12–13 (ENS) "Let's Start at the Beginning"			
	Day 4	Read pages 14–15 • Complete Worksheet 1 pages 33–34			
	Day 5				
	Day 6	Read pages 16–19 (ENS) "Let's Start at the Beginning," continued • Complete Activity 2 page 35			
	Day 7	Complete Activity 3 page 36			
Week 2	Day 8	Complete Worksheets 2, 3, or 4 pages 37–42			
	Day 9	Complete Activity 4 page 43			
	Day 10				
	Day 11	Read pages 20–21 (ENS) • Complete Worksheet 5 page 44			
	Day 12	Complete Activity 5 page 45			
Week 3	Day 13	Read 22–23 (ENS) • Complete Worksheet 6 pages 47–48			
	Day 14	Complete Worksheet 7 and Activity 6 page 49–57			
	Day 15				
	Day 16	Review Pages 22 and 23 and Vocabulary Cards Complete Activity 7 or 8 pages 59–60			
	Day 17	Read Pages 24–27 (ENS) • Complete Worksheet 8 page 61			
Week 4	Day 18	Complete Worksheets 9, 10, or 11 pages 62-66			
	Day 19	Complete Activities 9, 10, 11, or 12 pages 67–72			
	Day 20				
	Day 21	Read pages 28–30 (ENS) Complete Worksheets 12, 13, or 14 page 73–76			
	Day 22	Complete Activity 13 or 14 pages 77–78			
Week 5	Day 23	Read pages 31-33 (ENS) Complete Worksheets 15 or 16 page 79–81			
	Day 24	Complete Activity 15 or 16 pages 82–83			
	Day 25				
	Day 26	Complete Activity 17 page 84			
	Day 27	Read pages 34–37 (ENS) • Complete Worksheet 17 page 85			
Week 6	Day 28	Complete Activity 18, 19, or 20 pages 86–88			
	Day 29	Review word flash cards from this section.			
	Day 30				

Date	Day	Assignment	Due Date	<b>√</b>	Grade
	Day 31	Read pages 38-41 (ENS) • Complete Worksheet 18 page 89-90			
	Day 32	Complete Activity 21 page 91			
Week 7	Day 33	Complete Activity 22 page 92			
	Day 34	Read pages 42–43 (ENS) Complete Activity 23 or 24 pages 93–94			
	Day 35				
	Day 36	Read page 44 • Complete Activity 25 page 95			
	Day 37	Complete Worksheet 19 page 96			
Week 8	Day 38	Review Vocabulary Words (all levels) and flashcards			
	Day 39	Read pages 45–47 (ENS) • Complete Worksheet 20 page 97			
	Day 40				
	Day 41	Complete Activity 26, 27, or 28 pages 98-102			
	Day 42	Complete Activity 29 page 103			
Week 9	Day 43	Read Pages 48-51 (ENS) • Complete Worksheet 21 page 104			
	Day 44	Complete Activity 30 or 31 pages 105–106			
	Day 45				
		First Semester–Second Quarter			
	Day 46	Complete Activity 32 or 33 pages 107–108			
	Day 47	Read Pages 52–53 (ENS) Complete Worksheet 22 pages 109–110			
Week 1	Day 48	Complete Activity 34 or 35 pages 111–112			
	Day 49	Read Pages 54–56 (ENS) Complete Worksheet 23 pages 113–114			
	Day 50				
	Day 51	Read Pages 57–59 (ENS) • Complete Activity 36 pages 115–116			
	Day 52	Complete Activity 37 page 117			
Week 2	Day 53	Complete Activity 38 page 118			
	Day 54	Read Pages 60–61 (ENS) • Complete Worksheet 24 page 119			
	Day 55				
	Day 56	Complete Activity 39 page 120			
	Day 57	Read Pages 62–66 (ENS) • Complete Worksheet 25 page 121			
Week 3	Day 58	Read Pages 67–69 (ENS) • Complete Worksheet 26 page 122			
	Day 59	Complete Activity 40 page 123			
	Day 60				

Date	Day	Assignment	Due Date	<b>√</b>	Grade
	Day 61	Complete Activity 41 page 124			
	Day 62	Complete Activity 42 page 125			
Week 4	Day 63	Complete Activity 43 page 126			
	Day 64	Review all Vocabulary Words Compete Activity 44 pages 127–128			
	Day 65				
	Day 66	Review diagrams on pages 26, 36, 37, 42, 45, and 57 of ENS			
	Day 67	Complete Activity 45 page 129–130			
Week 5	Day 68	Review worksheets and study for Unit Test			
	Day 69	Study day for <i>The Electrifying Nervous System</i> Unit Test; review activities and vocabulary words			
	Day 70				
	Day 71	Unit Test: The Electrifying Nervous System pages 373-376			
	Day 72	Read pages 7-9, <i>Breathtaking Respiratory System</i> (BRS) Complete Activity 46 pages 143-150; Cut out flash cards			
Week 6	Day 73	Read pages 10-12 (BRS) • Complete Activity 47 page 151; practice sounding out the words and reviewing the vocabulary flash cards			
	Day 74	Read pages 13-15 (BRS) • Complete Worksheet 27 page 152			
	Day 75				
	Day 76	Read pages 16-18 (BRS) • Complete Activity 48 page 153-154			
	Day 77	Read pages 17-19 (BRS) Complete Worksheet 28 page 155–161			
Week 7	Day 78	Read pages 20-21 (BRS) Complete Worksheets 29 and 30 pages 163–165			
	Day 79	Complete Activity 49 page 166			
	Day 80				
	Day 81	Read pages 22-23 (BRS) • Complete Worksheet 31 page 167			
	Day 82	Complete Worksheet 32 and Activity 50 pages 168–169			
Week 8	Day 83	Read pages 24-25 (BRS) • Complete Worksheet 33 page 170			
	Day 84	Read pages 26-27 (BRS) • Complete Worksheet 34 page 171			
	Day 85				
	Day 86	Read pages 28-29 (BRS) • Complete Worksheet 35 page 172			
	Day 87	Read pages 30-31 (BRS) • Complete Worksheet 36 page 173-174			
Week 9	Day 88	Complete Activity 51 page 175			
	Day 89	Read pages 32-33 (BRS) Complete Worksheet 37 and 38 pages 177–180			
	Day 90				
		Mid-Term Grade			

## Second Semester Suggested Daily Schedule

Date	Day	Assignment	Due Date	<b>√</b>	Grade
		Second Semester–Third Quarter			
	Day 91	Read pages 34–35 (BRS) • Complete Activity 52 page 181			
	Day 92	Read pages 36–37 (BRS) • Complete Worksheet 39 page 182			
Week 1	Day 93	Read pages 38–39 (BRS) Complete Activity 53 or 54 pages 183–184			
	Day 94	Read pages 40-41 (BRS) • Complete Worksheet 40 page 185			
	Day 95				
	Day 96	Complete Activity 55 or 56 pages 187–189			
	Day 97	Complete Activity 57 page 190			
Week 2	Day 98	Read pages 42–43 (BRS) Complete Activity 58 page 191–192			
	Day 99	Read pages 44–45 (BRS) • Complete Worksheet 41 page 193			
	Day 100				
	Day 101	Read pages 46-47 (BRS) • Complete Worksheet 42 page 194			
	Day 102	Read pages 48–49 (BRS) Complete 59 and Worksheet 43 pages 195–196			
Week 3	Day 103	Complete Activity 60 page 197–198			
	Day 104	Read pages 50–51 (BRS) Complete Worksheet 44 pages 199–200			
	Day 105				
	Day 106	Read pages 52–53 (BRS) • Complete Worksheet 45 page 201			
	Day 107	Complete Activity 61 pages 203–204			
Week 4	Day 108	Complete Activity 62 page 205			
	Day 109	Read pages 54–55 (BRS) • Complete Worksheet 46 page 206			
	Day 110				
	Day 111	Complete Activity 63 or 64 pages 207–210			
	Day 112	Read pages 56–57 (BRS) • Complete Worksheet 47 page 211			
Week 5	Day 113	Complete Activity 65 page 212			
	Day 114	Complete Activity 66 pages 213–214			
	Day 115				
	Day 116	Review all Vocabulary Cards; read definitions first and try to remember the words.			
Week 6	Day 117	Read pages 58–59 (BRS) Complete Worksheet 48 pages 215–216			
**************************************	Day 118	Complete activity 67 page 217			
	Day 119	Review all completed worksheets			
	Day 120				
	Day 121	Read pages 60–61 (BRS) • Complete Worksheet 49 page 218			
	Day 122	Complete Activity 68 page 219			
Week 7	Day 123	Complete Activity 69 page 220			
	Day 124	Read pages 62–63 (BRS) Complete Activity 70 pages 221–224			
	Day 125				

Date	Day	Assignment	Due Date	$\checkmark$	Grade
	Day 126	Complete Activity 71 page 225–226			
	Day 127	Read pages 64–65 (BRS) Complete Worksheet 50 page 227–228			
Week 8	Day 128	Read pages 66–67 (BRS) • Complete Worksheet 51 page 229			
	Day 129	Complete Activity 72 page 230			
	Day 130				
	Day 131	Read pages 68-69 (BRS) • Complete Activity 73 page 231			
	Day 132	Read pages 70–71 (BRS) • Complete Activity 74 page 232			
Week 9	Day 133	Read pages 72–73 (BRS) Complete Worksheet 52 page 233–234			
	Day 134	Read pages 74–75 (BRS) • Complete Worksheet 53 page 235			
	Day 135				
		Second Semester-Fourth Quarter			
	Day 136	Review diagrams carefully on pages 22, 24, 26, 27, 29, 30, 33, 39, 52, and 59 (BRS)			
T. T. 1	Day 137	Study day for Unit Test; review coursework and vocabulary words			
Week 1	Day 138	Unit Test pages 377–380			
	Day 139	Read pages 7–9, <i>The Complex Circulatory System</i> (CCS) Complete Activity 75 pages 249–258			
	Day 140				
	Day 141	Read pages 10–11 (CCS) Complete Activity 76 page 259–260			
	Day 142	Read pages 12–13 (CCS) Complete Worksheet 54, 55, or 56 page 261–264			
Week 2	Day 143	Read pages 14–16 (CCS) Complete Worksheet 57 pages 265			
	Day 144	Read pages 17–19 (CCS) Complete Worksheet 58 pages 266			
	Day 145				
	Day 146	Read pages 20–23 (CCS) Complete Activity 77 pages 267–279			
	Day 147	Read pages 24–25 (CCS) Complete Activity 78 or Worksheet 59 pages 281–282			
Week 3	Day 148	Read pages 26–28 (CCS) • Complete Activity 79 and Worksheet 60, 61, or 62 pages 283–287			
	Day 149	Read pages 29–31 (CCS) • Complete Activity 80 or 81 and Worksheet 63 pages 288–290			
	Day 150				
	Day 151	Read pages 31–33 (CCS) • Complete Activity 82 or 83 and Worksheet 64 pages 291–293			
	Day 152	Read pages 34–35 (CCS) • Complete Activity 84, 85 or 86 and Worksheet 65, 66, 67 pages 294–300			
Week 4	Day 153	Read pages 36–37 (CCS) • Complete Activity 87, Worksheet 68, 69, 70, or 71 pages 301–312			
	Day 154	Read pages 38–39 (CCS) Complete Activity 88 or Worksheet 72 pages 313–315			
	Day 155				

Date	Day	Assignment	Due Date	$\checkmark$	Grade
	Day 156	Read pages 40–41 (CCS) Complete Worksheet 73 or 74 pages 316–317			
	Day 157	Read pages 42–43 (CCS) Complete Worksheet 75, 76, or 77 pages 318–320			
Week 5	Day 158	Read pages 44–45 (CCS) • Complete Activity 89, Worksheet 78, 79, or 80 pages 321–324			
	Day 159	Read pages 46–47 (CCS) Complete Activity 90, Worksheet 81, or 82 pages 325–328			
	Day 160				
	Day 161	Read pages 48–49 (CCS) Complete Activity 91, 92, 93, or 94 pages 329–343			
	Day 162	Read pages 50–53 (CCS) Complete Worksheet 83 or 84 pages 344–345			
Week 6	Day 163	Read pages 54–55 (CCS) • Complete Worksheet 85 or 86 and Activity 95 or 96 pages 346–352			
	Day 164	Read pages 56–57 (CCS) Complete Worksheet 87 or Activity 97 pages 353–358			
	Day 165				
	Day 166	Read pages 58–59 (CCS) Complete Worksheet 88 or Activity 98 pages 359–362			
	Day 167	Read pages 60–61 (CCS) Complete Worksheet 89 page 363			
Week 7	Day 168	Read pages 62–63 (CCS) Complete Worksheet 90 or 91 pages 364–365			
	Day 169	Read pages 64–65 (CCS) Complete Worksheet 92 or 93 pages 366–368			
	Day 170				
	Day 171	Read pages 66–69 (CCS) Complete Worksheet 94 pages 369			
	Day 172	Read pages 70–72 (CCS)			
Week 8	Day 173	Study day for <i>The Complex Circulatory System</i> Unit Test; review coursework and vocabulary words			
	Day 174	Unit Test: The Complex Circulatory System pages 381–383			
	Day 175				
	Day 176	Review <i>The Electrifying Nervous System</i> vocabulary words and Unit Test			
	Day 177	Review <i>The Breathtaking Respiratory System</i> vocabulary words and Unit Test			
Week 9	Day 178	Review <i>The Complex Circulatory System</i> vocabulary words and Unit Test			
	Day 179	Final Exam: The Electrifying Nervous System, The Breathtaking Respiratory System, and The Complex Circulatory System pages 385–388			
	Day 180				
		Final Grade			

## **Eight Areas of Intelligence**

Let's face it. We all learn in different ways. I may be naturally talented in playing basketball. Any sport that I pick up I achieve good success . . . however, I can't carry a musical tune. In fact, I believe people would pay me *not* to sing. We all have different talents with which God has blessed us. Some things come easier than other things. As a former classroom teacher, coach, pediatrician, and homeschool mother, I have witnessed the many talents and ways that my students, players, patients, and children are gifted.

We all are gifted. God places those gifts in each of us. Although I was able to meet with a moderate amount of educational success in my formative years, it has been thwarted by many challenges. My teachers did not appreciate my particular learning style. I was not a traditional learner. Just reading a book and doing worksheets never seemed to help me gain a firm grasp on my studies. I learned best by movement, experiencing, and visualizing my lessons. I see the world in pictures. My constant doodling in class was at times not embraced by my instructors. In fact, it was viewed as a distraction and inattentiveness. This is how I learn. All through medical school, I had the "best" illustrated notes. Even to this day, during Sunday morning sermons I take artistic renditions of the pastor's message. It is through my illustrations that I understand and process what is being said to me.

How effectively we process new information determines how successfully we are able to recall that same knowledge later. The layout of this series capitalizes on hands-on activities, experiments, worksheets, and fascinating stories connecting the student to information engaging the many learning styles of children. Educational trends today focus on linguistic and mathematical abilities almost exclusively. The theory of multiple intelligences was constructed by a developmental psychologist named Dr. Howard Gardner. He is a prolific author in educational theory. His most noted work, *Frames of Mind: The Theory of Multiple Intelligences*, suggested that there are at least eight different types of human intelligence or ways of understanding the world around us. In his book, he discusses how most individuals relay on one or two dominant intelligences. In our quest to acquire knowledge to understand our Heavenly Father and the world that lies around us, it is important to strengthen all of our levels of intelligence.

The eight areas of intelligence are the following:



INTRAPERSONAL



VERBAL-LINGUISTIC



VISUAL-SPATIAL



MUSICAL



**BODY-KINESTHETIC** 



INTERPERSONAL



LOGICAL-MATH



**NATURALIST** 

#### INTRAPERSONAL

These are the people who are introspective. They tend to understand themselves well. They analyze their thoughts and feelings. They enjoy individual activities. They are "self wise."

#### **VERBAL-LINGUISTIC**

6 These are the people who love to color the world through their words. They think in words. They learn best by writing, reading, and speaking. They are "word wise."

### VISUAL-SPATIAL

These are the people who think in shapes, colors, and images. They can see the spatial relations in things and know that things will fit just by playing with them in their minds. They are "picture wise."

#### MUSICAL

6 These are the people who can pick up a tune naturally. They hear it once and instantly "get it." They are aware of rhythms and learn best with activities that involve music. They are "music wise."

## LEVEL

# **BODY-KINESTHETIC**

These people have good physical awareness. They can bound on the playground from apparatus to apparatus like a billy goat scaling the side of a mountain. They are the ones who need to move, and they benefit best through hands-on discovery. They are "body wise."

#### INTERPERSONAL

•<sup>7</sup>• These people enjoy working in groups and playing on teams. They enjoy their experiences best with others. They are the "people wise."

#### LOGICAL-MATH

+ -

× = These people are rational intellectuals. They can see the abstract. They work best with numbers of patterns. They are "logic wise."

#### **NATURALIST**

These people are acutely aware of the many patterns in nature. They learn best when activities involve animals, plants, and the outdoors. They are "nature wise."

It can be very rewarding to capture your student's interest based on his or her particular learning style and then stretch him or her to develop skills in the other intelligences. God calls us at times to step out of our comfort zone. The more we follow Him and allow that discomfort to occur . . . the more He can use us.

## Division of the Teacher's Guide

This teacher guide is set up in three sections. Each contains material that corresponds with a specific book in the God's Wondrous Machine series. You will note three symbols on the sections of material that follow:



The Electrifying Nervous System

The brain symbol is a designation found on items pertaining to the nervous system.



The Breathtaking Respiratory System

The respiratory symbol is a designation found on items pertaining to the respiratory system.



The Complex Circulatory System

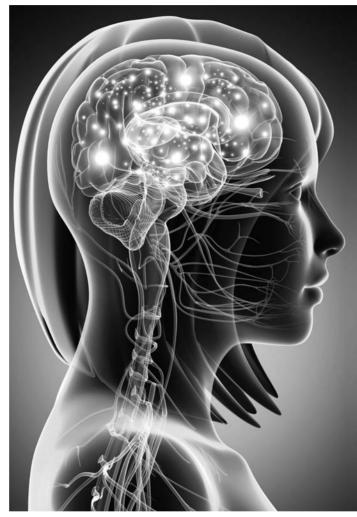
The circulatory symbol is a designation found on items pertaining to the circulatory system.

If all the symbols are on a page (such as the reports and rubric section in the back), then the sheets can be used with any of the different units of material.

## **NERVOUS SYSTEM OBJECTIVES**

Successful completion of this module will enable the student to:

- Name the major regions of the brain and describe their functions.
- Identify the gray and white matter's location and of what it consists.
- Locate the cerebral hemispheres.
- Name the three divisions of the diencephalon.
- Explain how the brain is located, supported, and protected in the cranial vault.
- Explain the blood-brain barrier.
- Locate the sensory, motor, and association areas of the cerebral cortex and discuss their functions.
- Identify the important structures within the regions of the brain and explain their prospective functions.
- Identify the gross anatomical features of the spinal cord.
- Explain what are dermatomes.
- Distinguish between the role of the parasympathetic and sympathetic divisions of the autonomic nervous system.



The Electrifying Nervous System

Activities and Worksheets





Day 4



Worksheet 1

Name

# **Just the Facts**

Ma	atch the word with its related mean	ning:
A	. Anatomy	Abnormal health consequences of disease
В.	Physiology	Microscopic cell structure
C	Histology	Name and location of parts of the body
D	. Pathology	How the body functions
Qı	tick questions:	
1.	How much does your brain weig	h?
2.	At what rate can your brain and	nervous system send out signals to the body?
3.	What basic function does your b	rain serve to do?
4.	The Edwin Smith Surgical Papyr	us was written by what ancient culture?
5	Who is also known as "The Fathe	or of Modicine"?
٦.	vviio is also kilowii as Tile Patile	er or medicine;
6	Who believed the brain was just	a place to cool blood from the heart?

7.	What does the Latin word <i>plumbum</i> mean?
8.	Who is the "Father of Anatomy"?
9.	What was the study known as phrenology?
10.	When was the first documented and successful removal of a brain tumor done?

## **Back in Time**

Choose one of the people from the historical timeline. Write a short story of how this discovery may have been made — and you can be as creative as you like. For example, imagine a situation that Hippocrates would have felt the need to develop the Hippocratic Oath. Or why the Edwin Smith Surgical Papyrus was written. Or what a day in an early apothecary may have been like.

After Pages 16-19



# How Did It Happen? Short Story Challenge

Imagine you are the assistant of one of the people listed on the timeline of brain-related discoveries or innovations. In 750 words or less, create a possible scenario that might have led to the discovery.

For example, you are Dr. Alice Hamilton's nurse and she is looking over a stack of patient records. When she realizes that the patients all have the same symptoms, she then tries to discover other things they have in common. (Hint! What kind of jobs do they have?)



After Page 16-19

Day 8



Worksheet 2

Name

# **Biblical References # 1**

Read the following verses: Psalm 26:2, Matthew 22:37, Colossians 3:2, Psalm 48:9, and Psalm 119:27. Each passage uses the words "mind" and "meditate." Write a short summary of the importance of "mind" and "meditate" as described in these passages.			





After Page 16-19

Day 8



Worksheet 3

Name

# **Biblical References # 2**

Copy the following verse:					
	Test me, LORD, and try me, examine my heart and my mind. (Psalm 26:2)				

Write in cursive the following verse: Test me, Lord, and try me, examine my heart and my mind. (Psalm 26:2)					



After Page 16-19

Day 8



Worksheet 4

Name

# The Word of God

Look up and write Colossians 3:2.				

What does this passage mean to you?				

# **Supercilious**

Here is an intellectual play on words. There is a ridge above the eye sockets in the skull called the *superciliary ridge*. What does it mean when someone describes a person as acting in a *supercilious* way? How are these two terms — superciliary ridge and supercilious — related? *Hint*: You will need a dictionary!



After Pages 20-21

Day 11



# **Looking Inside the Brain**

Modern technology has afforded us the ability to look into a person's brain. It provides useful diagnostic information to treat disease.



Fill in the blanks below on the following modalities.

1. CT scans or	are used for diagnosing	
	,, and	·
2. EEG or	is a way of recording	of the
	, are	that use
powerful magnetic	and radio 1	to form images of the body.
4. PET scan or	uses	
It reveal	s which areas of the brain are	

# **Techy**

MRI (Magnetic Resonance Imaging), CAT (Computerized Tomography), and PET (Positron Emission Tomography) scans have become valuable tools for peering into the body. Physicians use these tools to diagnose problems inside the brain without performing surgery. Write a report describing the difference between these diagnostic tools and describe how they relate to the brain and the nervous system.



3.

After Pages 22–23

Day 13



# **Back to the Basics**

Fill in the blanks with the following words:

			•				
	neuron	dendrites	axon	myelin sheath	neuroglia		
	Theother cells	are	tentacle-li	ke structures that ex	tend from the cell body and rea	ch out to the	
	A long tail-like extension of the cell body is called a(n) and it is surrounded by white fatty segmented covering called a(n)						
	Electrical	impulses are t	ransmitte	d through the			
		literal	ly means '	'neuron glue."			
Ma	atch the net	uroglia with its	s function				
	Micr	roglia	1.	"The grocer" — sup	olies nutrients to the neuron		
	Astro	oglia	2.	"The lining" — cells produce cerebral sp	that line the small cavities of the inal fluid (CSF)	he brain and	
	Oligo	odendroglia	3.	0 0	tor" — these are the phagocytic ders and waste products from	_	
	Epen	ndymal cells	4.	_	cells that support and insulate the myelin sheaths that protect the	•	
Na	me the par	rts of a neuron					
1.							
2.							

Draw and label a picture of a neuron.					