



Anatomy/
Physiology

GRADE LEVEL:
High School and Above

Scope and Sequence

COURSE OVERVIEW:

Body by Design defines the basic anatomy and physiology in each of 11 body systems from a creational viewpoint. Every chapter explores the wonder, beauty, and creation of the human body, giving evidence for creation, while exposing faulty evolutionistic reasoning. Dr. Alan Gillen is a biologist and zoologist with a doctorate in Science Education.

FEATURES:

Special explorations into each body system look closely at disease aspects, current events, and discoveries, while profiling the classic and contemporary scientists and physicians who have made remarkable breakthrough in studies of the different areas of the human body. The book utilizes tables, graphs, focus sections, diagrams, and illustrations to provide clear examples and explanations of the ideas presented. With its chapter review sections, the book is a powerful source of research and answers.

CONTENT FOCUS:

Chapter 1: Recognizing Design in the Human Body

Concepts for discussion:

- List the 11 systems in the human body.
- How can you recognize design in the human body?

Chapter 2: Origins of the Human Body

Concepts for discussion:

- Compare and contrast the definition of evolution by creationists and evolutionists.
- Explain the difference between micro- and macroevolution.

Chapter 3: Discovering DNS, Cells, and Tissue

Concepts for discussion:

- How is the concept of a mosaic an evidence for intelligent design?
- What are the four types of tissues found in the body?

Chapter 4: Exploring Development: Fearfully and Wonderfully Made

Concepts for discussion:

- List at least three organs of the reproductive system.
- Explain recapitulation theory.

Chapter 5: Exploring the Skeletal System in the Multifaceted Body Framework

Concepts for discussion:

- What are three of the main components or organs of the skeletal system?
- What is the common degenerative condition of joints?

Chapter 6: Exploring Interwoven Designs of the Muscular Systems

Concepts for discussion:

- What are the main components of the muscular system?
- What is the overall function of the muscular system?

Chapter 7: A Voyage into the Multifaceted Digestive System

Concepts for discussion:

- List at least three of the organs of the digestive system.
- Give examples of and describe the intertwining parts of the digestive system.

Chapter 8: Inferring Designs in the Excretory System

Concepts for discussion:

- What is the overall function of the excretory system?
- Describe and make an illustration of an intertwining part of the excretory system.

Chapter 9: A Journey into the Heart and Bloodstream

Concepts for discussion:

- Describe the function and makeup of the blood.
- Discuss how a vein is an interwoven component in the circulatory system.

Chapter 10: Investigating the Respiratory System and the Lungs

Concepts for discussion:

- What is the overall function of the respiratory system?
- Describe and make an illustration of an interwoven aspect of the respiratory system.

Chapter 11: Exploring the Nervous System, the Brain, and Pain

Concepts for discussion:

- What are three organs of the nervous system?
- Explain one reason why pain can be thought of as a good thing.



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Chapter 12: “All or None” Sensory Systems: The Eye and the Ear

Concepts for discussion:

- Describe the basic structures and functions of the eye.
- Explain the concept of transduction in relationship to the ear.

Chapter 13: Investigating the Body in Balance: The Endocrine System

Concepts for discussion:

- What is the overall function of the endocrine system?
- Describe and illustrate the interwoven components and structure of the pituitary gland.

Chapter 14: Detecting Diseases: The Human Body Defense Systems

Concepts for discussion:

- List at least three organs of the immune system.
- List at least three organs or components of the integumentary system.

Chapter 15: Classic and Contemporary Explorations in the Human Body

Concepts for discussion:

- List details on how the work of Joseph Lister (and others) revolutionized surgery.
- List three details about the contributions that Harvey made in the study of circulation.

Chapter 16: The Wisdom of the Body

Concepts for discussion:

- Explain why intelligent design is the theme that links all biology themes.
- Explain the principle of uniform experience and how it relates to the intelligent design.