

Science & Health



It is the glory of God to conceal a thing: but the honour of kings is to search out a matter. Prov. 25:2

Science

— is the study of God’s order, provision, and reasonableness as revealed in His physical creation.

◎ Upholds Biblical Truth

The *A Beka Book Science Program* presents the universe as the direct creation of God and refutes the man-made idea of evolution. Further, the books present God as the Great Designer and Lawgiver.

◎ Emphasizes a Christian perspective

Students enjoy studying science and are thrilled to see the plan of God as revealed in His orderly creation. The *A Beka Book Science Series* provides a solid foundation in science based soundly on the Word of God and Christian principles.

◎ Promotes academic excellence

Written by Christian teachers who understand not only science but also how to teach it effectively, these texts ensure teaching success in planning and conducting a science class. This superior program encourages student achievement, and the emphasis on nature study appeals to both students and teachers.

Science of the Physical Creation

Gr. 9



A BEKA BOOK SCIENCE PROGRAM

Teaches basic scientific principles

With the integrated approach of *A Beka Book*, students learn basic principles of science in each grade so they can review them and build upon them from year to year (see below for example).

Takes a building-block approach to all science fields

The sequential presentation of this series takes into account the maturity of the students, the principles previously developed, and the importance of variety in a student's life.

Enjoying God's World

Gr. 2

Understanding God's World

Gr. 4



Science: Order and Design

Gr. 7

Biology: God's Living Creation

Gr. 10



A BEKA BOOK SCIENCE PROGRAM

● Packed with features to help teachers

● Provides many hands-on activities

A variety of demonstrations are used to involve students in the learning process.

Grade	Number of activities	Grade	Number of activities
1	22	7	46
2	16	8	25
3	29	9	35
4	30	10	25
5	48	11	30
6	32	12	16

Exploring God's World Gr. 3

Comprehension Check

Concepts

In-text study aids

94 Exploring the Ocean

Comprehension Check ✓ Write your answers below or on paper.

Fill-In: Write the correct words on the lines.

- What kind of minerals would you expect to find in the ocean?
- What are rocks made up of?

Think about it


As seismographs show deeper, they find that the water gets darker. Why?

Why is the ocean so salty?

Scientists do not know exactly how the ocean became so salty. Christian men of science believe that God created it that way.

Scientists do know why the ocean is becoming saltier. As rivers flow toward the ocean, their waters pass swiftly over rocks and soil. The minerals in the rocks and soil very slowly dissolve. (**Dissolve** means to break into tiny pieces and become part of a liquid.)

The dissolved minerals, including salt, are then carried by the rivers to the ocean. The main way that water leaves the ocean is by evaporation. As it evaporates, it leaves the salt behind. In every hundred pounds of seawater, there are at least two pounds of salt.




Exploring the Ocean 95

The ocean's energy

The ocean has great energy in its moving waters. Have you ever been knocked over by a wave? Have you seen a huge ship being tossed about by waves? If you have, you know that the ocean is full of energy.

Waves are so powerful that they can carve out caves in the ocean cliffs. They can even lift ships onto dry land! A tidal wave, which is caused by an erupting volcano or an earthquake, can destroy an entire city.

Scientists are finding ways of making the ocean work for man. The energy of the ocean's waters can be used to make electricity.



Something to try!

Why is the ocean salty?

Since some water evaporates from the ocean each day, why is the ocean still salty? Try this and see!

What you need:

- 4 tablespoons of salt
- 1 cup of water
- cooking pot
- stove
- an adult to help


What to do:

1. Add salt to cup of water. Stir until you have dissolved the salt in the water.
2. Pour this solution into a pan, and heat the solution to boiling. Be sure to have an adult help you.

The water in the pan becomes steam or water vapor and begins to disappear into the air.

3. After all the water has evaporated, measure the salt to see how much salt is left.

How does this help to explain why the ocean is salty?



Bold print emphasizes important terms

Christian perspective

Colorful photography on nearly every page

Hands-on activities

A BEKA BOOK SCIENCE PROGRAM

- © Gives students basic science education through general science coverage in grades 1–8

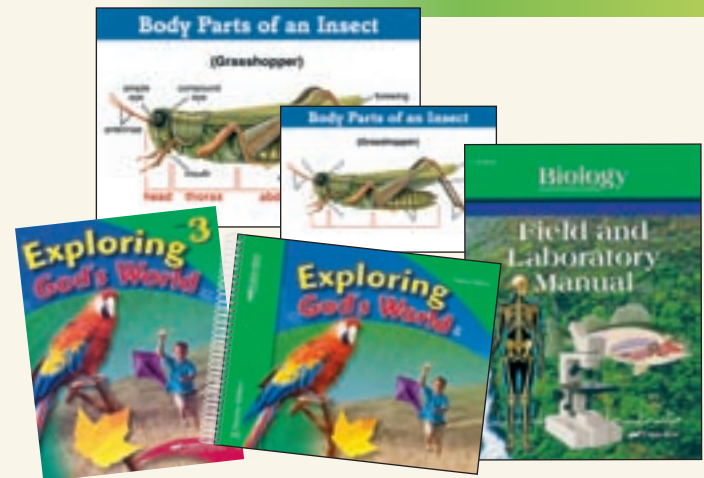
Areas of general study in *A Beka Book Science*

Studies	Grade							
	1	2	3	4	5	6	7	8
Plant Life	•	•	•	•		•	•	
Animal Life	•	•	•	•	•	•	•	•
Health and Human Biology	•	•	•				•	
Matter		•		•	•	•		•
Energy	•	•		•	•			•
Earth and Space		•	•	•	•	•		•
Ecology and Conservation			•	•	•	•	•	•
God as Creator and Designer	•	•	•	•	•	•	•	•

Teaching Aids



Curriculum Aids



- © Grades 9–12 Specialized Study

Science of the Physical Creation

Biology: God's Living Creation

Chemistry: Precision and Design

Physics: The Foundational Science

- © Offers numerous teaching aids

Visual aids, teacher editions, and curriculum/lesson plans assist teachers.

Science CDs/DVDs



Also Available

Biology Transparencies

Lab Demonstrations on DVD (9–12)

Health

— teaches students the wonders of the human body and encourages them to establish good health practices which affect total wellness.

Ⓞ **Based on moral absolutes**

The recurring thrust of these texts is the importance of establishing lifelong habits which affect total wellness. Students learn that a responsible action is one that is moral, safe, healthy, legal, and in accord with their parents' rules or guidelines. Thought-provoking questions motivate students to make Biblically sound personal decisions regarding their own health actions.

Ⓞ **Builds right character and good habits for living**

With the help of these lively health books, you can encourage good eating habits, heighten safety awareness, and help each student learn to respect others and to properly care for his body, that most marvelous creation of God.

Ⓞ **Encourages healthful behavior**

Healthful hints included throughout help students apply concepts to their own health actions, encouraging them to take more responsibility in caring for their health.

Ⓞ **Contains relevant and up-to-date topics**

These superb Christian health texts contain relevant and up-to-date information regarding such topics as physical fitness, personal appearance, human anatomy and physiology, eating for energy, drug abuse, safety, disease, first aid, mental and spiritual health, and social behavior.

Health, Safety, & Manners Gr. 3



Health in a Christian Perspective Gr. 9-12



A BEKA BOOK HEALTH PROGRAM

Useful, appealing format

Colorful art and photos excite interest, promote healthy relationships, and encourage students to become physically fit.

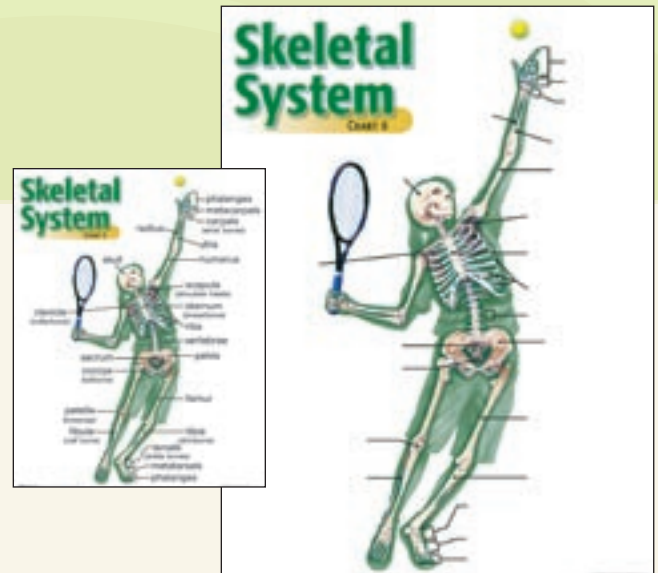
Improves reading comprehension skills as you teach health

Students who *learn to read* with the *A Beka Book* Reading Program are ready and eager to *read and learn* in a variety of content areas.

Offers practical demonstrations

Demonstrations and exercises that help students care for their bodies are included in the text.

Health Teaching Charts

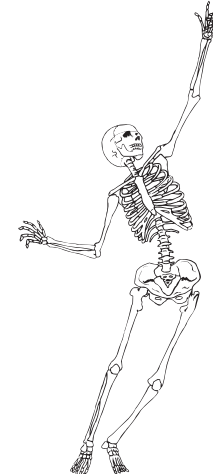


Anatomy Worksheet Gr. 4

Name _____ Date _____

Anatomy Worksheet 1 Developing Good Health
Chapter 1

Your Amazing Body: Color each bone of the skeleton the color that is indicated.



- cranium—red
- facial bones—yellow
- clavicle—blue
- scapula—orange
- sternum—green
- ribs—purple
- vertebrae—yellow
- humerus—brown
- carpals—red
- metacarpals—green
- phalanges—yellow
- femur—purple
- patella—blue
- tarsals—brown
- metatarsals—orange

(over)



A BEKA BOOK SCIENCE / HEALTH SERIES

Materials for Students and Teachers Generalized Study Grades 1–8

Grade Level	1	2	3	4	5	6	7	8
Student Books	●	●	●	●	●	●	●	●
Teacher Editions	●	●	●	●	●	●	●	●
Curriculum/Lesson Plans			●	●	●	●	●	●
Quiz and Test Books and Keys			●	●	●	●	●	●
Teaching Charts and Flashcards				●	●	●		
Science CDs			●	●		●		

Specialized Study Grades 9–12

Subject	<i>Health in Christian Perspective</i>	<i>Science of the Physical Creation</i>	<i>Biology: God's Living Creation</i>	<i>Chemistry: Precision and Design</i>	<i>Physics: The Foundational Science</i>
Student Book	●	●	●	●	●
Teacher Editions	●	●	●	●	●
Test and Quiz Books and Keys	●	●	●	●	●
Lab Manuals and Keys		●	●	●	●
DVD Lab Demonstrations		●	●	●	●
Teaching Transparencies			●		