



# Curriculum Catalog

## Science 300

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## Course Overview

Science 300 is an introductory elementary-level course designed to engage students with the wonders of God's creation, covering a variety of foundational scientific concepts. The course provides a broad survey of the universe, Earth's natural resources, ecosystems, and physical sciences, while also integrating a Biblical perspective throughout each unit.

Students will explore topics such as the solar system, rocks and minerals, the water cycle, and ecosystems. The course emphasizes observation, experimentation, and hands-on projects to deepen students' understanding of scientific principles and how they reflect the complexity and intentionality of God's design.

Upon completion of this course, students should be able to do the following:

- Understand the structure of the universe, including the role of the Sun and Moon, and explain how celestial bodies create observable patterns like day and night.
- Identify and describe Earth's rocks, minerals, and fossils, gaining insight into the diversity of natural resources and their significance.
- Investigate the water cycle and ecosystems, exploring the properties of water and how various cycles sustain life in freshwater and saltwater environments.
- Explain the structures and survival functions of plants and animals, recognizing God's provision in nature.
- Comprehend the principles of forces, motion, and simple machines, relating them to everyday physical interactions.
- Observe and analyze weather patterns, seasons, and extreme weather events, understanding their effects on the environment.
- Develop a foundational understanding of Earth's resources and their importance.
- Foster a connection between scientific inquiry and a Biblical worldview.
- Engage in hands-on exploration of natural phenomena to build knowledge and curiosity about the physical world.

Unit 1: God's Creation of the Universe	
Assignments	
Science 300	<ol style="list-style-type: none"> <li>1. Defining the Universe</li> <li>2. The Sun</li> <li>3. The Moon</li> <li>4. Moon Phases</li> <li>5. Stars</li> <li>6. Patterns in the Sky</li> <li>7. Seasons</li> <li>8. Endless Space, Mighty God</li> </ol>
Unit 2: Rocks, Minerals, and Fossils	
Assignments	
Science 300	<ol style="list-style-type: none"> <li>1. Introduction to Earth's Resources</li> <li>2. Properties of Rocks</li> <li>3. Minerals</li> <li>4. Earth's Surface Changes</li> <li>5. Fossils and Earth's History</li> <li>6. Conserving Earth's Resources</li> </ol>

Science 300	<b>Unit 3: The Wonders of Water</b>
	<b>Assignments</b>
	1. The Properties of Water 2. The Water Cycle and God's Provision 3. Freshwater and Saltwater Ecosystems 4. Conserving Water as Stewards of God's Creation
	<b>Unit 4: Plants and Their Needs</b>
	<b>Assignments</b>
	1. Plant Parts 2. Plant Survival 3. Photosynthesis and God's Amazing Design 4. How Plants Change and Grow 5. Caring for Plants as God's Creation
	<b>Unit 5: Animals and Their Needs</b>
	<b>Assignments</b>
	1. Classifying Animals: Physical Characteristics 2. Classifying Animals: Survival Functions 3. Animal Habitats and God's Provision 4. Animal Adaptations and Survival 5. Responsible Stewardship of God's Creatures
	<b>Unit 6: Ecosystems</b>
	<b>Assignments</b>
	1. What is an Ecosystem 2. Producers, Consumers, and Decomposers 3. Food Chains 4. Food Webs 5. Caring for Ecosystems as God's Stewards
	<b>Unit 7: Simple Machines</b>
	<b>Assignments</b>
	1. Introducing Simple Machines 2. Levers and Pulleys 3. Inclined Plans and Wedges 4. Screws, Wheels, and Axles 5. The Role of Simple Machines in Everyday Life
	<b>Unit 8: Force and Nature</b>
	<b>Assignments</b>
	1. Understanding Force 2. The Relationship Between Force and Motion 3. Gravity 4. Magnetism 5. Friction and Motion

Science 300	Unit 9: Weather and Climate
Assignments	1. Understanding Weather 2. Weather Patterns 3. Climate and the Earth's Regions 4. Weather Forecasting 5. Extreme Weather and Natural Disasters
Science 300	Unit 10: Review
Assignments	1. Properties of Matter 2. States of Matter and Changes in Matter 3. Forms of Energy 4. Forces and Motion, Simple Machines 5. Weather Patterns and the Water Cycle 6. The Solar System, Earth's Rotation, and Revolution 7. Ecosystems and Habitats 8. Animal Adaptations

## Additional Resources

**NASA.** NASA, [www.nasa.gov/](http://www.nasa.gov/). Accessed 3 Sept. 2024.

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