



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	
Science 300	Assignments
	1. Defining the Universe
	2. The Sun
	3. The Moon
	4. Moon Phases
	5. Stars
	6. Patterns in the Sky
	7. Seasons
	8. Endless Space, Mighty God
Unit 2: Rocks, Minerals, and Fossils	
Science 300	Assignments
	1. Introduction to Earth's Resources
	2. Properties of Rocks
	3. Minerals
	4. Earth's Surface Changes
	5. Fossils and Earth's History
	6. Conserving Earth's Resources

Unit 3: The Wonders of Water	
Science 300	Assignments
	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

Unit 4: Plants and Their Needs	
Science 300	Assignments
	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

Unit 5: Animals and Their Needs	
Science 300	Assignments
	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

Unit 6: Ecosystems	
Science 300	Assignments
	1. What is an Ecosystem
	2. Producers, Consumers, and Decomposers
	3. Food Chains
	4. Food Webs
	5. Caring for Ecosystems as God's Stewards

Unit 7: Simple Machines	
Science 300	Assignments
	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

Unit 8: Force and Nature	
Science 300	Assignments
	1. Understanding Force
	2. The Relationship Between Force and Motion
	3. Gravity
	4. Magnetism
	5. Friction and Motion

Unit 9: Weather and Climate	
Science 300	Assignments
	1. Understanding Weather
	2. Weather Patterns
	3. Climate and the Earth's Regions
	4. Weather Forecasting
	5. Extreme Weather and Natural Disasters
Unit 10: Review	
Science 300	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/. Accessed 3 Sept. 2024.

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