

Course Catalog

General Science I

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COURSE OVERVIEW

General Science I is a basic intermediate course intended to expose students to the designs and patterns in God's physical universe. This course expands on the Science 600 course, providing a set of basic scientific skills and a broad survey of the major areas of science. Some of the areas covered in General Science I include the scientific method, overview of the four major areas of science, mathematics in science, astronomy, the atmosphere, natural cycles, weather and climate, human anatomy and physiology, and careers in science.

The course seeks to develop the student's ability to be aware of and participate in scientific inquiry. The units contain experiments and projects to capitalize on the students' natural curiosity. The student will explore, observe, and manipulate everyday objects and materials in their environment. Students at this level should show understanding of interrelationships between organisms, recognize patterns in systems, and expand their knowledge of cellular dimensions of living systems. Collectively, this should help students develop and build on their subject-matter knowledge base.

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

- Use their main senses for observation of the world around them.
- Demonstrate a knowledge of the different tools and methods used in science.
- Calculate and convert units in the metric system.
- Discuss historical and current views on astronomy.
- Describe the atmosphere and the weather around the earth.
- Demonstrate a basic knowledge of the different systems in the human body.

	UNIT	1: WHAT IS SCIENCE?		
	Assig	nment Titles		
GENERAL SCIENCE	1.	Course Overview	9.	The Four Major Areas of Science
픙	2.	Tools of a Scientist 1	10.	Quiz 3: Work of a Scientist
Ŋ	3.	Tools of a Scientist 2	11.	Careers in Science
ੋਂ	4.	Quiz 1: Tools of a Scientist	12.	Quiz 4: Careers in Science
草	5.	Methods of a Scientist 1	13.	Special Project*
短	6.	Methods of a Scientist 2	14.	Test
G	7.	Quiz 2: Methods of a Scientist	15.	Alternate Test*
	8.	The Scientist	16.	Reference

	UNIT	2: PERCEIVING THINGS		
閚	Assig	nment Titles		
GENERAL SCIENCE	1.	Measurement: The Metric System	9.	Graphs: Pictographs and Pie Charts
끙	2.	Measurement: Size and Distance	10.	Experiment: Making Graphs
Š	3.	Measurement: Area	11.	Quiz 2: Graphing Data
₹	4.	Measurement: Volume	12.	Special Project*
単	5.	Measurement: Mass and Density	13.	Test
点	6.	Experiment: Finding Density	14.	Alternate Test*
G	7.	Quiz 1: Measurement	15.	Reference
	8.	Graphs: Uses, Bar, and Line		

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	UNIT 3: EARTH IN SPACE (PART 1)					
SCIENCE	Assign	nment Titles				
鱼	1.	Stargazing	8.	Astronomers		
SC	2.	Star Charts	9.	Essay: Galileo*		
	3.	Experiment: Constellations	10.	Quiz 3: Astronomers		
	4.	Quiz 1: Stargazing	11.	Special Project*		
GENERAL	5.	Astronomy	12.	Test		
B	6.	Experiment: Astrolabe*	13.	Alternate Test*		
	7.	Quiz 2: Astronomy	14.	Reference		

ш	UNIT	UNIT 4: EARTH IN SPACE (PART 2)						
ō	Assig	nment Titles						
SCIENCE	1.	The Sun's Energy	8.	Quiz 3: The Moon				
SC	2.	Quiz 1: The Sun's Energy	9.	Eclipses				
	3.	The Sun's Family	10.	Quiz 4: Eclipses				
2	4.	Outer Planets	11.	Special Project*				
GENERAL	5.	Asteroids and Comets	12.	Test				
뜅	6.	Quiz 2: The Sun's Family	13.	Alternate Test*				
	7.	The Moon	14.	Reference				

=	UNIT	UNIT 5: THE ATMOSPHERE					
SCIENCE	Assig	nment Titles					
鱼	1.	Structure of the Atmosphere	8.	Pollution			
SC	2.	Solar Effects	9.	Quiz 3: Pollution			
7	3.	Experiment: The Greenhouse	10.	Special Project*			
2	4.	Quiz 1: Structure of the Atmosphere	11.	Test			
GENERAL	5.	Water Cycle	12.	Alternate Test*			
뜅	6.	Other Natural Cycles	13.	Reference			
	7.	Quiz 2: Natural Cycles					

	UNIT	6: WEATHER		
SCIENCE	Assign	nment Titles		
鱼	1.	Elements of Weather	8.	Quiz 2: Weather in Motion
SC	2.	Wind	9.	Weather Forecasting
	3.	Pressure	10.	Quiz 3: Weather Forecasting
\ <u>\</u>	4.	Experiment: Dew Point	11.	Special Project*
GENERAL	5.	Quiz 1: Elements of Weather	12.	Test
넁	6.	Weather in Motion	13.	Alternate Test*
	7.	Fronts	14.	Reference

핆	UNIT	7: CLIMATE		
SCIENCE	Assign	nment Titles		
₿	1.	Climate: General	7.	Quiz 3: Regional Climate Types and Distribution
	2.	Quiz 1: Climate: General		of Climate Types
₹	3.	Climate: Worldwide	8.	Special Project*
当	4.	Quiz 2: Climate: Worldwide	9.	Test
GENERAL	5.	Regional Climate Types	10.	Alternate Test*
G	6.	Distribution of Climate Types in the World	11.	Reference

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	UNIT	8: THE HUMAN ANATOMY (PART 1)		
SCIENCE	Assign	nment Titles		
鱼	1.	Human Building Blocks	8.	Project: Human Brain*
SC	2.	Experiment: Cheek Cell	9.	Senses
Ĥ	3.	Quiz 1: Human Building Blocks	10.	Quiz 3: Human Nervous System and Senses
GENERAL	4.	Human Framework	11.	Special Project*
Ë	5.	Skin	12.	Test
B	6.	Quiz 2: Human Framework	13.	Alternate Test*
	7.	Human Nervous System	14.	Reference

_	UNIT	9: THE HUMAN ANATOMY (PART 2)		
	Assig	nment Titles		
GENERAL SCIENCE	1.	The Respiratory System	9.	The Excretory System
8	2.	Quiz 1: The Respiratory System	10.	Quiz 4: The Excretory System
Ŋ	3.	The Circulatory System	11.	The Endocrine System
ੋਂ	4.	Experiment: Heart Rate	12.	Quiz 5: The Endocrine System
草	5.	Quiz 2: The Circulatory System	13.	Special Project*
됴	6.	The Digestive SystemPart 1	14.	Test
G	7.	The Digestive SystemPart 2	15.	Alternate Test*
	8.	Quiz 3: The Digestive System	16.	Reference

	UNIT	10: WORKING IN SCIENCE		
	Assig	nment Titles		
핒	1.	Scientists at Work	12.	The Medical Scientist at Work
SCIENCE	2.	Experiment: Red Celery	13.	Nervous and Endocrine Systems
쁭	3.	Famous Scientists	14.	Circulatory and Respiration Systems
	4.	Quiz 1: Scientists at Work	15.	Digestive and Excretory Systems
GENERAL	5.	The Astronomer at Work	16.	Quiz 4: The Medical Scientist at Work and Body
띪	6.	Planets		Systems
풉	7.	Quiz 2: The Astronomer at Work	17.	Special Project*
ß	8.	The Meteorologist at Work	18.	Test
	9.	Studying the Weather	19.	Alternate Test*
	10.	Studying Climates	20.	Reference
	11.	Quiz 3: The Meteorologist at Work		

(*) Indicates alternate assignment

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