

Identifier	Poplar - Grade 6 - Science		Introduced	Completed
6 S 1	<b>PHYSICAL SCIENCE</b>			
6 S 1.1.01	Forces and Motion	Investigate and describe the concept that some objects move so slowly or so rapidly that their motion is difficult to detect.		
6 S 1.1.02	Forces and Motion	Investigate and describe how machines can use motion to do work.		
6 S 1.1.03	Forces and Motion	Investigate and describe the relationship between the mass and the volume of various objects.		
6 S 1.2.01	Structure and Properties of Matter	Explain that all matter is composed of atoms, and atoms are composed of smaller particles.		
6 S 1.2.02	Structure and Properties of Matter	Investigate and describe how elements can combine to form new substances which often have different properties.		
6 S 1.3.01	Energy and Matter - Interactions and Forms	Interactions and Forms: Investigate and describe how electrical energy can be transferred through various materials.		
6 S 1.3.02	Energy and Matter - Interactions and Forms	Interactions and Forms: Investigate and describe how energy exists in different forms (e.g., heat, light, chemical, electrical, and others).		
6 S 1.4.01	Chemical Reaction	Investigate and describe how chemical reactions may be fast or slow.		
6 S 1.5.01	Nuclear Energy and Electromagnetic Energy	Describe light in terms of simple properties (e.g., color, brightness).		
6 S 2	<b>LIFE SCIENCE</b>			
6 S 2.1.01	The Cell	Distinguish between living and non-living matter		
6 S 2.1.02	The Cell	Compare plant and animal cells		
6 S 2.1.03	The Cell	Discuss the relationships among cells, tissues, organs, systems, and organisms		
6 S 2.2.01	Diversity of Life	Explore the major groups of animals		
6 S 2.2.02	Diversity of Life	Explore the major groups of plants		
6 S 2.2.03	Diversity of Life	Analyze the characteristics of organisms that do not fit the description of plants or animals		
6 S 2.3.01	Cellular Reproduction and Genetics	Explore cells as the structural foundation for all living things		
6 S 2.3.02	Cellular Reproduction and Genetics	Describe how traits are passed from one generation to the next		
6 S 2.3.03	Cellular Reproduction and Genetics	Explain how natural selection leads to new and varied species		
6 S 3	<b>EARTH AND SPACE SCIENCE</b>			
6 S 3.1.01	Earth Models	Investigate, design, and use various kinds of maps.		
6 S 4	<b>ENVIRONMENTAL SCIENCES</b>			
6 S 4.1.01	Humans and Environment	Explain how human populations interact with the environment		
6 S 4.1.02	Humans and Environment	Distinguish between renewable and nonrenewable resources		
6 S 4.1.03	Humans and Environment	Diagram various natural cycles		
6 S 5	<b>THE NATURE AND HISTORY OF SCIENCE</b>			
6 S 5.1.01	Scientific, Historical, and Technological Perspectives	Identify and describe various technological tools that scientists use to help them do their work.		
6 S 5.2.01	Reasoning and Critical Response Skills	Investigate and describe the components of systems (including processes or parts).		
6 S 5.2.02	Reasoning and Critical Response Skills	Distinguish between fact and opinion when responding to information.		
6 S 5.3.01	Taxonomy	Describe characteristics scientists use to classify organisms		
6 S 5.3.02	Taxonomy	Distinguish between common names and scientific names		
6 S 5.3.03	Taxonomy	Use a key to identify organisms		
6 S 6	<b>SCIENTIFIC INQUIRY, PROCESSES AND SKILLS</b>			
6 S 6.1.01	Systems, Models, Risk, and Predictions	Analyze data to predict likely outcomes (e.g., how temperature range can affect the survival rate of a species).		
6 S 6.2.01	Laboratory Skills and Safety	Use safety equipment and attire.		
6 S 6.3.01	Foundations of Science	Describe the steps of the scientific method		
6 S 6.3.02	Foundations of Science	Use the appropriate metric measurement for length, mass, volume, and temperature		
6 S 6.3.03	Foundations of Science	Practice safety measures in the laboratory		