Identifier	Poplar - Grade 4 - Science		Introduced	Completed
4 S 1	**PHYSICAL SCIENCE**			
4 S 1.1.01	Forces and Motion	Investigate and describe balance points of different objects.		
4 S 1.1.02	Forces and Motion	Investigate and describe how objects can sink or float in water.		
4 S 1.2.01	Structure and Properties of Matter	Investigate and describe properties of materials when they are combined (mixtures).		
4 S 1.2.02	Structure and Properties of Matter	Observe and describe that different objects and materials may be composed of parts that are too small to be seen without magnification.		
4 S 1.3.01	Energy and Matter - Interactions and Forms	Investigate and describe how circuits can produce light, heat, sound, and magnetic effects.		
4 S 2	**LIFE SCIENCE**			
4 S 2.1.01	Structure and Function	Investigate, compare, and contrast identifiable structures of plants and animals.		
4 S 2.2.01	Internal and External Influences on Organisms	Investigate and describe the behavior of individual organisms when influenced by internal cues (e.g., hunger) and by external cues (e.g., environment).		
4 S 2.3.01	Herdity and Diversity	Observe and describe variations among individuals within the human population.		
4 S 3	**EARTH AND SPACE SCIENCES**			
4 S 3.1.01	Earth Structures and Composition	Investigate, compare, and contrast the properties of rocks and minerals.		
4 S 3.1.02	Earth Structures and Composition	Compare and contrast the location of landforms.		
4 S 3.1.03	Earth Structures and Composition	Investigate and describe the composition of different soils.		
4 S 3.2.01	Cycles of Matter and Energy	Identify and describe various meteorological phenomena (e.g., floods, drought).		
4 S 3.2.02	Cycles of Matter and Energy	Investigate and describe the forms and uses of water.		
4 S 3.2.03	Cycles of Matter and Energy	Identify the components of our solar system (i.e., planets, moon, asteroids, comets, sun).		
4 S 3.3.01	Solar System and Universe	Observe and describe properties, locations, and movements of the sun, moon, stars, clouds, birds, and planets.		
4 S 3.3.02	Solar System and Universe	Observe and describe the changes of the moon's appearance over time.		
4 S 3.3.03	Solar System and Universe	Investigate and describe how distance affects the brightness of any light source.		
4 S 4	**ENVIRONMENTAL SCIENCES**			
4 S 4.1.01	Ecosystems	Investigate and describe the variables that affect the survival of organisms within an ecosystem.		
4 S 4.2.01	Natural Resources	Identify the natural resources of Montana.		
4 S 4.2.02	Natural Resources	Investigate and describe resources which can be used and reused or renewed.		
4 S 4.3.01	Conservation	Observe, investigate, and describe how some environmental changes occur quickly and some occur slowly.		
4 S 5	**THE NATURE AND HISTORY OF SCIENCE**			
4 S 5.1.01	Scientific, Historical and Technological Perspectives	Identify the components of scientific investigation (e.g., observing, collecting data, classifying).		
4 S 5.1.02	Scientific, Historical and Technological Perspectives	Exchange scientific observations and ideas.		
4 S 5.1.03	Scientific, Historical and Technological Perspectives	Explain that measuring instruments can be used to gather information for making scientific comparisons of objects and events for designing and constructing things that will work properly.		
4 S 5.1.04	Scientific, Historical and Technological Perspectives	Model and describe contributions made to scientific thought and design technology		
4 S 5.1.05	Scientific, Historical and Technological Perspectives	Compare the advantages and disadvantages of using technology (e.g., tools for measurement, calculators, computers)		
4 S 5.1.06	Scientific, Historical and Technological Perspectives	Explore and research science-related careers		
4 S 5.1.07	Scientific, Historical and Technological Perspectives	Design or construct models of mechanical devices		
4 S 5.1.08	Scientific, Historical and Technological Perspectives	Describe how well a product/tool does what it was designed to do (e.g., zippers, can openers)		
4 S 5.1.09	Scientific, Historical and Technological Perspectives	Identify and describe technological systems		
4 S 6	**SCIENTIFIC INQUIRY: PROCESSES AND SKILLS**			
4 S 6.1.01	Scientific Values and Attitudes	Conduct fair tests to make observations.		
4 S 6.1.02	Scientific Values and Attitudes	Observe and interact with objects, organisms, and phenomena and raise questions that can be investigated and researched		
4 S 6.1.03	Scientific Values and Attitudes	Plan and conduct investigations and experiments independently, with a partner, or with a small group		

Identifier	Poplar - Grade 4 - Science		Introduced	Completed
4 S 6.1.04	Scientific Values and Attitudes	Use appropriate equipment, tools, techniques, and resources to gather, analyze, and interpret data/ information		
4 S 6.1.05	Scientific Values and Attitudes	Record observations of investigations over time in a science notebook/journal (e.g., changes in structures or characteristics of a plant or animal)		
4 S 6.1.06	Scientific Values and Attitudes	Develop and communicate descriptions, explanations, and predictions, based on evidence		
4 S 6.1.07	Scientific Values and Attitudes	Create illustrations, graphs, and charts to convey ideas and record observations		
4 S 6.1.08	Scientific Values and Attitudes	Cooperate and contribute ideas within a group		
4 S 6.1.09	Scientific Values and Attitudes	Estimate numerical answers to problems before calculating		
4 S 6.1.10	Scientific Values and Attitudes	Determine whether measurements and descriptions are reasonably accurate		
4 S 6.1.11	Scientific Values and Attitudes	Generate new questions based on results of investigations and research		