

**Helena Public Schools
Gr 6 Teacher Desk Reference**

6th Topic/ Benchmark	IDEA	Skill	Supplies	Activities	Comments
SM 1.1	I/D	Explain and use the scientific method List safety precautions to use in labs	Goggles, fire extinguisher, safety blanket, eye wash, measurement tools		
SM1.3	I	Explain scientific experiments based upon gathered evidence	Scientific method charts, graph paper		
SM1.4	I/D	Understand the relationship between cause and effect	Acids, bases, salts		
SM1.6	I/D	Identify a variable in an experiment			
SM5.1	I/D	Explore scientific careers	Speakers, videos, posters, charts		
CM1.4	I/D	Understand the relationship between cause and effect			
CM2.1	I/D	Explain chemical cycles in nature Explain chemical properties and changes	Acids, bases, salts, PH paper, PH meter, vinegar, baking soda, steel wool, sulphuric acid, hydrochloric acid		
CM2.2	I/D	Classify matter as elements, compounds, solutions, or mixtures Describe the structure of the atom	Atomic models, salt, sugar, iron filings, alcohol, turpentine, sand, styrofoam, wire, periodic tables		
CM2.3	I/D/E	Explain physical properties, and physical and chemical changes	Sugar, alcohol burners, propane burners, copper sulfate		
CM2.4	I/D	Identify patterns of change			
CM5.1	I/D	Explore scientific careers	Posters, newspapers, videos, references, internet		
EC1.4	I/D	Understand the relationship between cause and effect			
EC2.4	I/D	Identify patterns of change			
EC3.1	I/E	Describe characteristics of living things (structure and function)	Ant farms, aquariums, terrariums, cages		

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EC3.3	D	Describe relationships between living things Discuss the reasons for extinction	Biome models		
EC3.4	I/D	Relate and identify the water and land biomes to their climates Describe ecological succession	Stream tables, field trips, tree borer, plant press		
EC3.5	I/D	Identify the relationships of plants and animals in their biome	Biome models, ecosphere		
EC4.4	I/D	Describe the water cycle, the structure of the atmosphere, and the impact of oceans on weather patterns	Cloud chamber, weather station, hot plates, water test kits		
EC5.1	I/D	Explore scientific careers	Videos, newspapers, speakers		
EC5.2	I/D	Consider methods for managing land resources	Soil test kits, speakers, field trips, stream table		
EC5.4	I/D	Name natural resources, and label them as renewable and nonrenewable Investigate ways of preventing pollution	Water test kits, air quality test kits, radon test kits, oil, feathers		
EC6.2	I/D	Trace the development of mankind's quest for space exploration	Field trips, videos, NASA materials		
ES1.4	I/D	Understand the relationship between cause and effect			
ES2.4	I/D	Identify patterns of change	Software, laser discs		
ES3.3	D	Describe relationships between living things Discuss the reasons for extinction	Fossils, software		
ES4.1	I/D	Describe and explain the motion of the Earth's crust Describe the theory of plate tectonics	Posters, newspapers, videos, references, internet, models		
ES4.2	I/D	Explain the rock cycle Define minerals and their uses Identify erosion and deposition	Rock and mineral identification kits, magnets, nails, glass, rock cycle models, ultraviolet light		

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ES4.3	I/D	List the major lithosphere plates Discuss the theory of continental drift			
ES5.1	D	Explore scientific careers			
ES6.1	D	State the location of major volcanic zones Trace forms of energy resources, including alternative sources	Globes, maps, solar panels		
MM1.2	I/D	Identify and use metric units of measurement Use information to prepare data sheets, graphs, and charts	Balances, rulers, graduated cylinders, beakers, measuring tapes, graph paper, meter sticks, GPS unit		
MM5.1	I/D	Explore scientific careers			
EM1.4	I/D	Understand the relationship between cause and effect			
EM5.1	I/D	Explore scientific careers			
EM2.6	I/D	Define energy and compare the characteristics of electricity and magnetism	Magnets, batteries, bulbs, wire, generators, electric motors, circuit boards		
W1.4	I/D	Understand the relationship between cause and effect			
W2.4	I/D	Identify patterns of change			
W4.4	I/D	Describe the water cycle, the structure of the atmosphere, and the impact of oceans on weather patterns	Weather station, maps, water cycle model, weather tools, charts, thermometers		
W4.5	D	Relate the tilt of the Earth's axis and position in reference to the sun, Earth's seasons, and the length of days	Globes, flashlights, newspapers		
W5.1	I/D	Explore scientific careers			

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A1.4	I/D	Understand the relationship between cause and effect			
A1.4	I/D	Understand the relationship between cause and effect			
A2.4	I/D	Identify patterns of change			
A4.6	D	Describe the Earth, Moon, planets and other objects in space	Model rockets, solar system models, styrofoam balls, posters		
A4.5	D	Relate the tilt of the Earth's axis and position in reference to the sun, Earth's Seasons, and the length of days			
A5.1	D	Explore scientific careers			
A6.2	I/D	Trace the development of mankind's quest for space exploration			
EN1.4	I/D	Understand the relationship between cause and effect			
EN1.5	I/D	Create visuals to identify fossil fuels and their uses Discuss other forms of energy resources	Solar panels, fossils, coal samples		
EN5.1	D	Explore scientific careers			
EN5.3	I/D	Identify source of air, land, and water pollution Identify fossil fuels and their uses	Fossils, air test kits, water test kits, soil test kits, software, internet, screen sieve kit		
EN5.4	I/D	Investigate ways of preventing pollution Recognize need for recycling Name natural resources as renewable or nonrenewable	Videos, newspapers, speakers, software, internet		

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6th Topic/ Benchmark	IDEA	Skill	Supplies	Activities	Comments
EN6.1	I/D	State the location of major volcanic zones Trace forms of energy resources, including alternative sources	Maps, models, solar panels		
EN6.2	I/D	Trace the development of mankind's quest for space exploration			
L2.1	I/D	Explain the role of chemical cycles in nature Give examples of chemical properties and chemical changes			
L3.1	I/E	Describe the basic characteristics of living things			
L3.2	D	Investigate plant systems	Soil, seeds, plants, pots, green house, grow lights		
L3.3	D	Describe the basic characteristics of living things Discuss the reasons for extinction	Microscopes, magnifiers, slides		
L5.1	I/D	Explore scientific careers			
L1.4	I/D	Understand the relationship between cause and effect			