

Science K-5 Outcomes

K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
Life Science					
Living Things in Our Environment	Needs and Characteristics of Living Things	Animal Growth and Changes	Plant Growth and Changes	Habitats and Communities	Human Body Systems
LEK.1 Examine observable characteristics of plants, animals, and people in the local environment.	LT1.1 Differentiate between living things according to observable characteristics, including appearance and behaviour.	AN2.1 Analyze the growth and development of familiar animals, including birds, fish, insects, reptiles, amphibians, and mammals, during their life cycles.	PL3.1 Investigate the growth and development of plants, including the conditions necessary for germination.	HC4.1 Investigate the interdependence of plants and animals, including humans, within habitats and communities.	HB5.1 Analyze personal and societal requirements for, and the impact of, maintaining a healthy human body.
	LT1.2 Analyze different ways in which plants, animals, and humans interact with various natural and constructed environments to meet their basic needs.	AN2.2 Compare the growth and development of humans with that of familiar animals.	PL3.2 Analyze the interdependence among plants, individuals, society, and the environment.	HC4.2 Analyze the structures and behaviours of plants and animals that enable them to exist in various habitats.	HB5.2 Investigate the structure, function, and major organs of one or more human body systems such as the digestive, excretory, respiratory, circulatory, nervous, muscular, and skeletal systems.
		AN2.3 Assess the interdependence of humans and animals in natural and constructed environments.		HC4.3 Assess the effects of natural and human activities on habitats and communities, and propose actions to maintain or restore habitats.	HB5.3 Assess how multiple human body systems function together to enable people to move, grow, and react to stimuli.

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Physical Science					
Materials and Objects	Using Objects and Materials	Liquids and Solids	Structures and Materials	Light	Properties and Changes of Materials
MOK.1 Investigate observable characteristics of familiar objects and materials.	OM1.1 Investigate observable characteristics and uses of natural and constructed objects and materials in their environment.	LS2.1 Investigate properties (e.g., colour, taste, smell, shape) of familiar liquids and solids.	SM3.1 Investigate properties of materials and methods of joinery used in structures.	LI4.1 Investigate characteristics and physical properties of natural and artificial sources of light in the environment.	MC5.1 Investigate characteristics and physical properties of materials in solid, liquid, and gaseous states of matter.
	OM1.2 Examine methods of altering and combining materials to create objects that meet student- and/or teacher-specified criteria.	LS2.2 Investigate interactions between liquids and solids, and technologies based on those interactions.	SM3.2 Assess the function and characteristics of strong, stable, and balanced natural and human-built structures.	LI4.2 Analyze how light interacts with different objects and materials to create phenomena such as shadows, reflection, refraction, and dispersion.	MC5.2 Investigate how reversible and non-reversible changes, including changes of state, alter materials.
				LI4.3 Assess personal, societal, and environmental impacts of light-related technological innovations including optical devices.	MC5.3 Assess how the production, use, and disposal of raw materials and manufactured products affects self, society, and the environment.

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Physical Science					
Observing Forces and Energy	Using Our Senses	Motion and Relative Position	Magnetism and Static Electricity	Sound	Forces and Simple Machines
FEK.1 Examine the effects of physical forces, magnetic forces, light energy, sound energy, and heat energy on objects in their environment.	SE1.1 Investigate characteristics of the five traditional external senses (i.e., sight, sound, smell, touch, and taste) in humans and animals.	MP2.1 Analyze methods of determining the position of objects relative to other objects.	ME3.1 Investigate the characteristics of contact (e.g., push, pull, and friction) and non-contact (e.g., magnetic and static electric) forces.	SO4.1 Explore natural and artificial sources of sound in the environment and how those sounds are detected by humans and animals.	FM5.1 Analyze the effects of gravitational, magnetic, and mechanical forces, including friction, on the movement of objects.
	SE1.2 Explore how humans and animals use their senses to interact with their environment.	MP2.2 Investigate factors, including friction, which affect the motion of natural and constructed objects, including self.	ME3.2 Assess effects of practical applications of magnetic and static electric forces on individuals and society.	SO4.2 Draw conclusions about the characteristics and physical properties of sound, including pitch and loudness, based on observation.	FM5.2 Investigate characteristics of simple machines, including levers, wheels and axles, pulleys, inclined planes, screws, and wedges, for moving and lifting loads.
				SO4.3 Assess personal, societal, and environmental impacts of sound-related technologies.	FM5.3 Assess how natural and man-made forces and simple machines affect individuals, society, and the environment.

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Earth and Space Science					
Exploring Our Natural Surroundings	Daily and Seasonal Changes	Air and Water in the Environment	Exploring Soils	Rocks, Minerals, and Erosion	Weather
NSK.1 Explore features of their natural surroundings, including changes to those surroundings over time.	DS1.1 Compare and represent daily and seasonal changes of natural phenomena through observing, measuring, sequencing, and recording.	AW2.1 Investigate properties of air and water (in all three states of matter) within their environment.	ES3.1 Investigate the characteristics, including soil composition and ability to absorb water, of different types of soils in their environment.	RM4.1 Investigate physical properties of rocks and minerals, including those found in the local environment.	WE5.1 Measure and represent local weather, including temperature, wind speed and direction, amount of sunlight, precipitation, relative humidity, and cloud cover.
	DS1.2 Inquire into the ways in which plants, animals, and humans adapt to daily and seasonal changes by changing their appearance behaviour, and/or location.	AW2.2 Assess the importance of air and water for the health and survival of living things, including self, and the environment.	ES3.2 Analyze the interdependence between soils and living things, including the importance of soil for individuals, society, and all components of the environment.	RM4.2 Assess how human uses of rocks and minerals impact self, society, and the environment.	WE5.2 Investigate local, national, and global weather conditions, including the role of air movement and solar energy transfer.
				RM4.3 Analyze how weathering, erosion, and fossils provide evidence to support human understanding of the formation of landforms on Earth.	WE5.3 Analyze the impact of weather on society and the environment, including technologies that help humans address weather conditions.