

MINNESOTA ACADEMIC STANDARDS GRADE 1

SCIENCE

Strand	Sub-Strand	Standard	Benchmarks
Strand: I. HISTORY AND NATURE OF SCIENCE	Sub-Strand: B. Scientific Inquiry	Standard: The student will raise questions about the natural world, make careful observations, and seek answers.	Benchmarks: 1. The student will observe, describe, measure, compare and contrast common objects, using simple tools including but not limited to ruler, thermometer and balance.
Strand: II. PHYSICAL SCIENCE	Sub-Strand: A. Structure of Matter	Standard: The student will understand that objects have physical properties.	Benchmarks: 1. The student will describe objects in terms of color, size, shape, weight, texture, flexibility and attraction to magnets.
Strand: II. PHYSICAL SCIENCE	Sub-Strand: E. Forces of Nature	Standard: The student will understand that forces can act at a distance.	Benchmarks: 1. The student will know that magnets can be used to make some things move without direct contact. 2. The student will know that things near the Earth fall to the ground unless something holds them up.
Strand: III. EARTH AND SPACE SCIENCE	Sub-Strand: B. The Water Cycle, Weather and Climate	Standard: The student will investigate weather cycles.	Benchmarks: 1. The student will observe, record and describe characteristics in daily weather and seasonal cycles.
Strand: III. EARTH AND SPACE SCIENCE	Sub-Strand: C. The Universe	Standard: Student will recognize the changes that occur in the sky in a 24-hour day.	Benchmarks: 1. The student will observe and describe the changes in the position of the sun and the moon.
Strand: IV. LIFE SCIENCE	Sub-Strand: B. Organisms	Standard: The student will observe plant and animal life cycles.	Benchmarks: 1. The student will observe and describe how plants and animals grow and change.
Strand: IV. LIFE SCIENCE	Sub-Strand: D. Heredity	Standard: The student will understand that there is variation among individuals of one kind within a population.	Benchmarks: 1. The student will describe ways in which many plants and animals closely resemble but are not identical to their parents. 2. The student will match adult animals and plants to their offspring.

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Strand: IV. LIFE SCIENCE	Sub-Strand: F. Flow of Matter and Energy	Standard: The student will understand that organisms have basic needs.	Benchmarks: 1. The student will know that animals need air, water and food and that plants require air, water, nutrients and light.
Strand: IV. LIFE SCIENCE	Sub-Strand: G. Human Organism	Standard: The student will know that the human body is made up of parts.	Benchmarks: 1. The student will observe and describe major parts of the body including, but not limited to, eyes, nose, heart, skin, arms, legs and muscles.
Strand: IV. LIFE SCIENCE	Sub-Strand: G. Human Organism	Standard: The student will learn that some diseases are caused by germs.	Benchmarks: 1. The student will know that diseases caused by germs can be spread from person to person; the number of germs can be reduced by personal behavior.