



Alignment of Eagle Bluff's Naturalist Programs for all grades with MN Academic Standards

Backwoods Buttercup

GRADE 4	III EARTH AND SPACE SCIENCE	A. Earth Structure and Processes	The student will investigate the impact humans have on the environment.	1. The student will identify and investigate environmental issues and potential solutions.
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Bats

GRADE 3	IV. LIFE SCIENCE	C. Interdependence of Life	The student will understand that an organism's patterns of behavior are related to the nature of its environment.	2. The student will know that changes in a habitat can be beneficial or harmful to an organism.
GRADE 4	III EARTH AND SPACE SCIENCE	A. Earth Structure and Processes	The student will investigate the impact humans have on the environment.	1. The student will identify and investigate environmental issues and potential solutions.

Cave Ecology

GRADE 3	IV. LIFE SCIENCE	C. Interdependence of Life	The student will understand that an organism's patterns of behavior are related to the nature of its environment.	2. The student will know that changes in a habitat can be beneficial or harmful to an organism.
GRADE 4	III EARTH AND SPACE SCIENCE	A. Earth Structure and Processes	The student will investigate the impact humans have on the environment.	1. The student will identify and investigate environmental issues and potential solutions.
GRADE 5	III. EARTH AND SPACE SCIENCE	A. Earth Structure and Processes	The student will explore the structures and functions of Earth systems.	3. The student will describe how waves, wind, water and ice shape and reshape the Earth's surface.

Coyotes

GRADE 4	III EARTH AND SPACE SCIENCE	A. Earth Structure and Processes	The student will investigate the impact humans have on the environment.	1. The student will identify and investigate environmental issues and potential solutions.
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Insects

GRADE 4	III EARTH AND SPACE SCIENCE	A. Earth Structure and Processes	The student will investigate the impact humans have on the environment.	1. The student will identify and investigate environmental issues and potential solutions.
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Our Place in Outer Space

GRADE 3	III. EARTH AND SPACE SCIENCE	C. The Universe	The student will understand the characteristics and relationships of objects in the solar system.	2. The student will identify the planets in the solar system and their relative sizes, distances and basic characteristics. 3. The student will observe that the sun supplies heat and light to the Earth.
GRADE 4	III. EARTH AND SPACE SCIENCE	C. The Universe	The student will identify the patterns and movements of celestial objects.	2. The student will identify the sun as an average-sized star and that the other stars are so far away that they look like points of light. 3. The student will know that telescopes magnify distant objects in the sky and dramatically increase the number of stars we can see.
GRADE 8	III. EARTH AND SPACE SCIENCE	C. The Universe	The student will compare objects in the solar system and explain their interactions with the Earth.	1. The student will recognize that the sun is the principal energy source for the solar system and that this energy is transferred in the form of radiation. 2. The student will explain how the combination of the Earth's tilted axis and revolution around the sun causes the progression of seasons and weather patterns.
GRADE 9–12	III. EARTH AND SPACE SCIENCE	C. The Universe	The student will relate the formation and components of our solar system to the conditions necessary for life.	1. The student will explain how the sun, Earth and solar system formed. 2. The student will compare the characteristics of Earth with the characteristics and movement patterns of the other planets, their satellites and other objects in our solar system. 3. The student will compare and contrast the environmental parameters that make life possible on Earth with conditions found on the other planets of our solar system.
GRADE 9–12	III. EARTH AND SPACE SCIENCE	C. The Universe	The student will use astronomical data to reveal the structure, scale, and changes in the stars, galaxies and universe over time.	1. The student will identify different types of stars and galaxies and describe how stars, galaxies and the universe change over time. 2. The student will explain how nuclear fusion produces energy and other elements. 3. The student will describe the evidence from current technologies that has been used to understand the composition and the early history of the universe. 4. The student will explain how Doppler evidence indicates our universe is expanding in all directions.

Raptors

GRADE 3	IV. LIFE SCIENCE	C. Interdependence of Life	The student will understand that an organism's patterns of behavior are related to the nature of its environment.	2. The student will know that changes in a habitat can be beneficial or harmful to an organism.
GRADE 4	III EARTH AND SPACE SCIENCE	A. Earth Structure and Processes	The student will investigate the impact humans have on the environment.	1. The student will identify and investigate environmental issues and potential solutions.
GRADE 5	IV. LIFE SCIENCE	E. Biological Populations Change Over Time	The student will know that biological populations change over time.	2. The student will recognize that extinction of a species occurs when the environment changes and the adaptive characteristics of a species are insufficient to allow its survival.

Reptiles

GRADE 3	IV. LIFE SCIENCE	C. Interdependence of Life	The student will understand that an organism's patterns of behavior are related to the nature of its environment.	2. The student will know that changes in a habitat can be beneficial or harmful to an organism.
GRADE 4	III EARTH AND SPACE SCIENCE	A. Earth Structure and Processes	The student will investigate the impact humans have on the environment.	1. The student will identify and investigate environmental issues and potential solutions.

Starlab

GRADE 1	III. EARTH AND SPACE SCIENCE	C. The Universe	Student will recognize the changes that occur in the sky in a 24-hour day.	1. The student will observe and describe the changes in the position of the sun and the moon.
GRADE 3	III. EARTH AND SPACE SCIENCE	C. The Universe	The student will understand the characteristics and relationships of objects in the solar system.	1. The student will recognize the difference between rotation and revolution and their connection to day, night, seasons and the year. 4. The student will know that planets look like stars, but over time they move differently than stars.
GRADE 4	III. EARTH AND SPACE SCIENCE	C. The Universe	The student will identify the patterns and movements of celestial objects.	1. The student will recognize that the stars in the sky appear to slowly move from east to west. 2. The student will identify the sun as an average-sized star and that the other stars are so far away that they look like points of light.
GRADE 8	III. EARTH AND SPACE SCIENCE	C. The Universe	The student will compare objects in the solar system and explain their interactions with the Earth.	2. The student will explain how the combination of the Earth's tilted axis and revolution around the sun causes the progression of seasons and weather patterns. 4. The student will use the predictability of the motions of the Earth, and sun to explain the length of day, length of year, phases of the moon, eclipses, tides and shadows.

Tail of Two Forests

GRADE 3	IV. LIFE SCIENCE	C. Interdependence of Life	The student will understand that an organism's patterns of behavior are related to the nature of its environment.	1. The student will know that organisms interact with one another in various ways besides providing food. 2. The student will know that changes in a habitat can be beneficial or harmful to an organism.
GRADE 4	III EARTH AND SPACE SCIENCE	A. Earth Structure and Processes	The student will investigate the impact humans have on the environment.	1. The student will identify and investigate environmental issues and potential solutions.

Timber Rattler

GRADE 3	IV. LIFE SCIENCE	C. Interdependence of Life	The student will understand that an organism's patterns of behavior are related to the nature of its environment.	2. The student will know that changes in a habitat can be beneficial or harmful to an organism.
GRADE 4	III EARTH AND SPACE SCIENCE	A. Earth Structure and Processes	The student will investigate the impact humans have on the environment.	1. The student will identify and investigate environmental issues and potential solutions.
GRADE 5	IV. LIFE SCIENCE	E. Biological Populations Change Over Time	The student will know that biological populations change over time.	2. The student will recognize that extinction of a species occurs when the environment changes and the adaptive characteristics of a species are insufficient to allow its survival.

