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## ABOUT US

**Birds on the Brink Sanctuary (BOTB) is a forever home for birds and other living beings on the endangered or threatened list. Our facility and educational programs support the Georgia Standards of Excellence in the areas of Science. We offer guided fieldtrips for school groups, homeschoolers, and camps with diverse offerings for grades K through 12. We are confident that if we can “Excite a Child’s Curiosity” to discover, imagine, explore, and express their experience, we would have helped awaken their potential.**

## OUR SANCTUARY

### Bentley's Butterfly Garden:

Our butterfly garden pollinator habitat is where students can learn about Georgia's magnificent native butterflies. Our habitat seasonally hosts real butterfly eggs, caterpillars, chrysalises, and butterflies. Students will learn about the following related topics:

- A butterfly's life cycle.
- Pollinators' host plants.
- Endangered and threatened butterfly species like the Monarch.

### Macaw Parrots Rainforest Flight:

Students can view Macaw parrots in motion as they fly in our state-of-the-art 40-foot flight area. Students will learn about:

- Exotic birds and their natural habitats.
- How parrots forage, sleep, and play to bust boredom.
- Species of exotic birds that are extinct.

### Sarah's Place:

A backyard located in our Science Discovery Center illustrating how butterflies, birds, and bees see the world. Through hands on exploration students can find a world of animals that you cannot usually see. Giant sculpture depicts the life cycle of a butterfly and helps young children visually understand each life stage. Additional topics covered are:

- Plants Native to Georgia.
- Endangered Georgia flora and fauna, like the Giant Oak and bats.
- How to help our endangered bees and butterflies.

## OUR SANCTUARY (CONT.)

### The Hatch Hut:

Located in our Science Discovery Center, our Hatch Hut teaches students about Animal, Earth, and Space Science using the latest technology. Through Augmented Reality, Virtual Reality, High Definition 3-D, and Artificial Intelligence students will learn about various topics including:

- The Amazon Rain Forest
- Animal Ecosystems
- Animal Evolution and Extinction
- Caves and Caverns
- Stars and Planets

### Magic Rocks Display:

Our Fluorescent Rock Area is where students will discover, under a dark tent, the world of glowing minerals. Our mineral rock expert and guide will teach students all about:

- Glowing mineral and why they fluoresce.
- How to discover fluorescent mineral by using short, long, and medium light waves.
- The 4 types of luminescent characteristics in minerals, such as phosphorescent (glow in the dark).

### Odd Couple Pavilion:

The Odd Couple Pavilion is where we host live animal interactions and showcase Fiona and Gerty our beautiful Ambassador Parrots. Children have the option to just pet a parrot or have one perch on their arm. Students will discover:

- The brain power of parrots - as Gerty shows her favourite tricks.
- How birds use their body parts to see, grasp objects, fly and find food
- The beautiful places around the world where parrots like Fiona live and have evolved.

BIRDS ON THE BRINK SUPPORTS THE GSE FOR 1ST AND 2ND GRADE IN THE FOLLOWING AREAS.

BENTLEY'S BUTTERFLY GARDEN

FIRST GRADE

SECOND GRADE

Topics: Parts of a plant, basic needs of plants and animals, weather

**LS1.B Growth and Development of Organisms**

- Plants and animals grow and change.

**LS1.C Organization for Matter and Energy Flow in Organisms**

- All animals need food in order to live and grow.
- Plants need water and light to live and grow.

**LS2.A Interactions, Energy, and Dynamics**

- Animals depend on their surroundings to get what they need, including food, water and shelter.
- Plants depend on air, water and light

**LS2.B Cycles of Matter and Energy Transfer in Ecosystems**

- Organisms obtain materials they need to grow and survive from environment.

Topics: Plant and Animal Life Cycles, Pollination, Environmental Changes

**LS1B: Growth and Development of Organisms**

- Plants and animals have predictable characteristics at different stages of development. Plants and animals grow and change. Adult plants and animals can have young.
- Plants and animals have unique and diverse life cycles that include being born (sprouting in plants), growing, developing into adults, reproducing, and eventually dying.

**LS2A: Interdependent Relationships in Ecosystems**

- Animals can move around, but plants cannot, and they often depend on animals for pollination or to move their seeds around.

MACAW PARROTS RAINFOREST FLIGHT

FIRST GRADE

SECOND GRADE

Topics: Parts of a plant, basic needs of plants and animals, weather

**LS2.A Interactions, Energy, and Dynamics**

- Animals depend on their surroundings to get what they need, including food, water and shelter.
- Plants depend on air, water, and light.

**LS2.C Ecosystems Dynamics, Functioning, and Resilience**

- When plants and animals cannot find enough food, water, or air, they may die.

Topics: Plant and Animal Life Cycles, Pollination, Environmental Changes

**ESS3C: Human Impacts on Earth Systems**

- Things that people do to live comfortably can affect the world around them.

## FIRST GRADE

Topics: Parts of a plant, basic needs of plants and animals, weather

**LS1.B Growth and Development of Organisms**

- Plants and animals grow and change.

**LS1.C Organization for Matter and Energy Flow in Organisms**

- All animals need food in order to live and grow.
- Plants need water and light to live and grow.

**LS2.A Interactions, Energy, and Dynamics**

- Animals depend on their surroundings to get what they need, including food, water, and shelter.
- Plants depend on air, water, and light

**LS2.B Cycles of Matter and Energy Transfer in Ecosystems**

- Organisms obtain materials they need to grow and survive from environment.

## SECOND GRADE

Topics: Plant and Animal Life Cycles, Pollination, Environmental Changes

**LS1B: Growth and Development of Organisms**

- Plants and animals have predictable characteristics at different stages of development. Plants and animals grow and change. Adult plants and animals can have young.

- Plants and animals have unique and diverse life cycles that include being born (sprouting in plants), growing, developing into adults, reproducing, and eventually dying.

**LS2A: Interdependent Relationships in Ecosystems**

- Animals can move around, but plants cannot, and they often depend on animals for pollination or to move their seeds around.

**ESS3C: Human Impacts on Earth Systems**

- Things that people do to live comfortably can affect the world around them.

HATCH HUT (APPLIED TECHNOLOGY)

FIRST GRADE

SECOND GRADE

Topics: Parts of a plant, basic needs of plants and animals, weather

**LS1.A Structure and Function**

- Plants have different parts (roots, stems, leaves, flowers, fruits) that help them survive, grow, and produce more plants

**LS2.A Interactions, Energy, and Dynamics**

- Animals depend on their surroundings to get what they need, including food, water, and shelter.
- Plants depend on air, water, and light

**LS2.B Cycles of Matter and Energy Transfer in Ecosystems**

- Organisms obtain materials they need to grow and survive from environment.

**LS2.C Ecosystems Dynamics, Functioning, and Resilience**

- When plants and animals cannot find enough food, water, or air, they may die.

**PS1.A Structure and Properties of Matter**

- Different kinds of matter exist (e.g., wood, metal, water), and many of them can be either solid or liquid, depending on temperature.

**ESS2.C The Roles of Water in Earth's Surface Processes**

- Water exists as solid ice and in liquid form.

**ESS2.D Weather and Climate**

- Weather is a combination of sunlight, wind, snow or rain and temperature in a particular region at a particular time.
- People measure those conditions to describe and record the weather and to notice patterns over time.

Topics: Star, Sun, and Moon

**PS3B: Conservation of Energy and Energy Transfer**

- Sunlight warms Earth's surface.

**ESS1A: The Universe and its Stars**

- Patterns of the motion of the sun, moon, and stars in the sky can be observed, described, and predicted.

**ESS1B: Earth and the Solar System**

- Seasonal patterns of sunrise and sunset can be observed, described, and predicted.

**ESS1C: The History of Planet Earth**

- Some events on Earth occur in cycles, like day and night.

Topics: Plant and Animal Life Cycles, Pollination, Environmental Changes

**LS1A: Structure and Function**

- Plants also have different parts (roots, stems, leaves, flowers, fruits) that help them survive, grow, and produce more plants.

**LS1B: Growth and Development of Organisms**

- Plants and animals have predictable characteristics at different stages of development. Plants and animals grow and change. Adult plants and animals can have young.

- Plants and animals have unique and diverse life cycles that include being born (sprouting in plants), growing, developing into adults, reproducing, and eventually dying.

**LS2C: Ecosystem Dynamics, Functioning, and Resilience**

- The places where plants and animals live often change, sometimes slowly and sometimes rapidly.

**ESS2E: Biogeology**

- Plants and animals (including humans) can change their environment (e.g. the shape of the land, the flow of water.)

**ESS3C: Human Impacts on Earth Systems**

- Things that people do to live comfortably can affect the world around them.

## MINERAL ROCK EXPLORATION AREA

Topics: Sources of Light, Shadows, Sound and Vibration**PS4.B Electromagnetic Radiation**

- Objects can be seen only when light is available to illuminate them.

## LIVE ANIMAL INTERACTION

Topics: Parts of a plant, basic needs of plants and animals, weather**LS2.C Ecosystems Dynamics, Functioning, and Resilience**

- When plants and animals cannot find enough food, water, or air, they may die.

**LS1.B Growth and Development of Organisms**

- Plants and animals grow and change

Topics: Plant and Animal Life Cycles, Pollination, Environmental Changes**LS1B: Growth and Development of Organisms**

- Plants and animals have predictable characteristics at different stages of development. Plants and animals grow and change. Adult plants and animals can have young.
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