



Bat Discovery Trip

Our mascot is an Indiana Bat. Bats are friends of nature. They are valuable to our habitat by eating insects, pollinating plants, and spreading seeds. During your educational field trip, your students will explore with their hands, minds, body and senses to learn about how bats interact with and contribute to our environment. We will distill any myths our young visitors may have about bats, and replace them with factual information about these amazing mammals. Your students will learn how bats use echolocation to find food, and fly safely in the darkest places. In addition, your students will participate in an interactive experiment by using their senses, like a bat does, to locate and identify their off spring.

See Indiana state standards on the next page.

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Bat Program Indiana Standards

At Bellaboo's Play and Discovery Center we are excited to offer you educational programs that help you meet the Indiana State Standards for your class. Use this sheet as a check off list to the standards being covered during our programs.

PreK-Kindergarten

Science

- F.1.3 - Observe and describe properties of objects
- F.1.5— Use the five senses to investigate the environment and to gather information
- F.2.5 - Apply previously learned information to new situations
- F.3.11 — Identify plants and animals as living things
- K.3.2 - Investigate that things move in different ways such as fast, slow, etc.
- K.4.1 - Give examples of plants and animals.
- K.4.2 - Observe plants and animals, describing how they are alike and how they are different in the way they look and in the things they do.

1st-2nd Grade

- 1.1.2 - Investigate and make observations to seek answers to questions about how bats move.
- 1.2.4 - Measure the length of bat wings in inches or feet.
- 1.2.6 - Describe and compare bat characteristics of numbers, shape, texture, size, weight, color, and motion.
- 1.4.1 —Identify when stories give attributes to animals, such as the ability to speak, that they really do not have.
- 1.4.2 --Observe describe that there can be differences, such as size or markings, among the individuals within one kind of bat group.
- 1.4.3 -Explain that bats eat plants for food.
- 1.4.4 -Explain that most living things need water, food, and air.
- 1.6.1 Observe and describe that models such as toys, are like the real things in some ways but different in others.

- 2.1.4 Make new observations when there is disagreement among initial observations.
- 2.3.4 Investigate and describe how bats sometimes cause changes in their surroundings.
- 2.4.1 Observe and I.D different external features of animals and describe how these features help bats live in different environments.
- 2.4.3 Observe and explain that animals need to take in water, and food.
- 2.4.4 Recognize and explain that living things are found almost everywhere in the world and that there are somewhat different kinds in different places.

3rd Grade

- 3.3.9 Demonstrate that things that make sound do so by vibrating, such as vocal cords and musical instruments. Bats use echolocation to get around in the dark.
- 3.4.1 Demonstrate that a great variety of living things can be sorted into groups in many ways using various features, such as how they look, where they live, and how they act, to decide which things belong to which group.
- 3.4.2 - Explain that features used for grouping depend on the purpose of the grouping.
- 3.4.3. —Offspring are very much but not exactly like their parents and like one another.
- 3.6.3. —Explain how a model of something is different from the real thing but can be used to learn something about the real thing.