

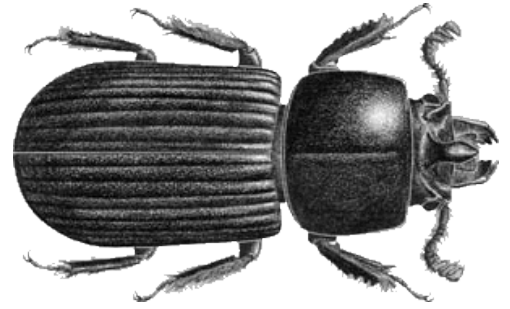
K-2nd Grade Bio-Education Programs

Exploring All that Makes Life AMAZING



Creepy Crawlies

- **Grade Focus:** K
- **State Standard(s) Addressed:** K.P.1, K.P.2, K.L.1
- **Overview:** *Have you hugged a worm today?* Through use of scientific tools and 4 of the 5 senses (No tasting!), students will investigate different creepy crawlies including live worms, beetles, pill bugs and snails. Through simple experimentation, we will explore what makes these critters unique... from how they move to how they feel to what they eat. Students will create a mini-habitat for their own pet roly-poly to take home! We will even make-and-take some snail slime! Students will be fascinated by all that is creepy, crawly and WONDERFUL and walk away with a greater appreciation for these little guys and their crucial role in the environment!
- **Activities:** Meet live critters, experiment with worms, create a roly-poly habitat, and make snail slime
- **Take Home:** Roly-poly pet and habitat and snail slime
- **Live Animals:** Earthworms, beetles, roly-polies, and large garden snails
- **Career(s) Explored:** Entomologist, Soil Scientist



Fur, Feathers and Scales, Oh My!

- **Grade Focus:** K
- **State Standard Addressed:** K.P.1, K.L.1, 1.L.2
- **Overview:** Your students will be immersed in the great diversity of life! We will use scientific tools and our senses as we compare, contrast and classify vertebrates and discover how animals really are unique and amazing! Students will have a blast as they become Taxonomist Contestants on “*Whose Shoe is Whose?*” and “*Name that Skeleton!*”. Students will even make and take their own backbone model bracelet! We will incorporate a variety of animal artifacts that will bring this program to life. Option: This program can be implemented with or without live snakes, turtles, and salamanders.
- **Activities:** Play “*Whose Shoe is Whose?*” And “*Name that Skeleton*”, make backbone bracelet, meet and greet with live animals
- **Take-Home:** Backbone bracelet
- **Live Animal Option:** Snakes, turtles, and salamanders
- **Career(s) Explored:** Taxonomist, Zoologist



It's Not Easy Being Green!

- **Grade Focus:** 1st
- **State Standard(s) Addressed:** 1.L.2, 1.L.1
- **Overview:** Come join us on a journey into the world of plants! Students will discover what plants need to survive and just how we need plants to survive ourselves! Students will “become trees” and play an intense game of true tree survival. We will incorporate hands-on activities with live plants and plant parts to gain a good understanding of what makes a plant, well, a plant. Students will investigate plants in different stages of their life cycle and make and take their own plant home to observe throughout its life cycle. If the weather and campus allows, students will be taken out to learn about the plants right outside their classroom.
- **Activities:** Play the Tree Survival Game, classify plant parts, dissect a bean, and plant their own plant
- **Take Home:** Plant seed planted in container
- **Live Animal Option:** Maizy, the Corn Snake
- **Career(s) Explored:** Botanist, Forester



I Love Our Earth!

- **Grade Focus:** 1st
- **State Standard(s) Addressed:** 1.L.1
- **Overview:** Calling all young planet protectors! This program will incorporate games and activities that will focus on the 3 R's and how even young people can play a vital role in protection of our one and only earth! We will play recycle games and make and take a recycled craft. Students will investigate the art of composting and do simple experiments with the ultimate recycler, earthworms. Finally, students will explore the importance of water conservation and learn about simple steps they can take at home to conserve this precious resource. This memorable program will inspire our youth for positive action!
- **Activities:** Meet live decomposers, play the Recycling Rocks game, make a recycled craft and experiment with worms
- **Take Home:** Recycled craft
- **Live Animals:** Earthworms, roly-polies, beetles and large garden snails
- **Career(s) Explored:** City Waste Manager, City Council Person



Forces of Nature

- **Grade Focus:** 2nd
- **State Standard(s) Addressed:** 2.E.1
- **Overview:** This program will focus on the natural forces that create weather and climate and the tools that scientists use to observe and measure such forces. Students will even make-and-take and test their own anemometer! We will investigate daily and seasonal changes. Students will have a blast as they make-and-take their very own snow! With a focus on our local environment, students will gain a better understanding of what makes the Carolinas such a wonderful place to live!
- **Activities:** Test meteorology tools, investigate N.C. climate., build an anemometer, and make snow
- **Take Home:** Student-made anemometer, Snow
- **Live Animal Option:** Maizy, the corn snake
- **Career(s) Explored:** Meteorologist, Climatologist



Around We Go!

- **Grade Focus:** 2nd – 3rd
- **State Standard(s) Addressed:** 2..L.1., 3.L.2
- **Objective:** To engage, challenge and inspire students as we investigate all that makes life amazing!
- **Overview:** We are all unique and grow and develop in different ways! Students will be amazed as they explore this diversity of development by investigating living and model animals at different stages. We will have a ball playing the Life Cycle game and get a bit messy while making a frog egg slime mass.
- **Activities:** Meet and pet live animals in different stages (optional), play the Life Cycle Game and make frog egg slime masses
- **Take Home:** Frog egg slime mass
- **Live Animal Option:** This program can be implemented with or without live insects (larvae and adult), snakes (baby and adult), box turtles (baby and adult) and frogs (tadpole, when available, and adult).
- **Career(s) Explored:** Herpetologist, Entomologist

