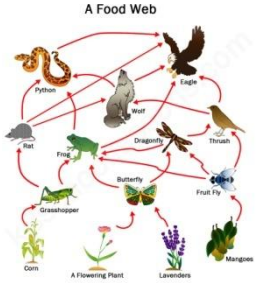
6th – 8th Grade Bio-Education Programs

Exploring All that Makes Life AMAZING

CAROLINA HEADWATERS

Oh a Tangled Web!

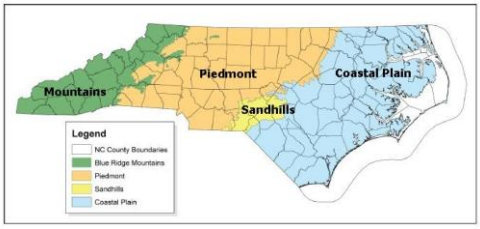
- **Grade Focus:** 5th – 6th
- **State Standard(s) Addressed:** 5.L.2, 6.L.2
- **Overview:** Students will be amazed just how intricate all life is connected! We will discover the power of the sun's energy as we play the "Pass the Energy" game, observe an actual food chain when we dissect an owl pellet (puke...but don't worry, it has been sterilized), meet live animals (optional), model a food web to see how intricately connected all organisms are and make an edible food chain bracelet showing why large predators are rare.



- **Activities:** Play Pass the Energy game, model a food web, dissect an owl pellet, meet-and-greet with animals that are a part of food chains in the wild, and make an edible food chain bracelet
- **Take Home:** Edible food chain bracelet
- **Live Animal Option**: Beetles, turtles, salamanders, and snakes
- **Career(s) Explored**: Ecologist, Ornithologist

Across the Carolinas

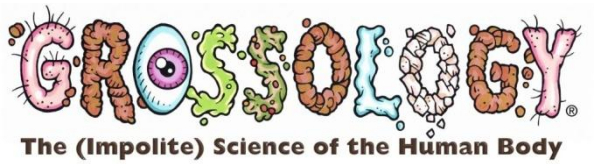
- **Grade Focus:** 6th
- **State Standard(s) Addressed:** 6.L.2
- **Overview:** Join us on a journey across the Carolinas! Students will go on a trip from the Coast to the Piedmont to the Mountains in engaging activities that will focus on the varying climate, animals, and vegetation of these different eco-regions. We will explore the biotic and abiotic factors that affect and determine the variety of life that live in each area. We will look closer at common food webs that exist in different areas of NC. Finally, students will have a blast playing the Food Chain game and creating their own Food Chain bracelet. Option: This program can be implemented with or without snakes and turtles.



- **Activities:** Engage in the NC Eco-region map activity, create food webs with common animals from each eco-region, play the Food Chain game and make a food chain bracelet
- **Take Home:** Food Chain bracelet
- **Live Animal Option:** Snakes and turtles
- **Career(s) Explored:** Ecologist, Land Manager

Grossology: The Human Edition

- **Grade Focus:** 5th, 7th
- **State Standard(s) Addressed:** 5.L.1, 7.L.1
- **Overview:** Students will investigate bodily functions that are often considered gross but are vital to our health. From digestion to sweating to the making of mucus, students will gain a better appreciation of these slimy, sweaty, stinky processes!
- **Activities:** Milk and dish soap/bile experiment, rocket canisters/flatulence experiment, cracker chew/digestion experiment, sweating experiment, and make mucus
- **Take Home:** Mucus/slime
- **Live Animal Option**: Maizey, the Corn Snake
- **Career(s) Explored**: Gastroenterologist, Otolaryngologist



Wonderful Watersheds

- **Grade Focus:** 7th, 8th
- **State Standard(s) Addressed**: 7.E.1, 8.E.1
- **Overview:** Students will go on a watery adventure as we travel through the Carolinas by river, lake, and ocean. We will play the water cycle game and create our own watershed as we investigate the natural and unnatural factors that affect it. We may even meet a few water-loving creatures! Option: This program can be implemented with or without salamanders and frogs.
- **Activities:** Investigate local watershed by map, play the life-sized Water Cycle game, make water cycle bracelet, create a watershed, and meet some water-loving critters
- **Take Home:** Water Cycle Bracelet
- **Live Animal Option**: Salamanders, Frogs
- **Career(s) Explored**: Freshwater Ecologist, Park Ranger

Virus Hunters

- **Grade Focus:** 8th
- **State Standard(s) Addressed**: 8.L.1, 8.L.2
- **Overview:** Students will take a closer look at the things that make us sick and keep us well! We will learn about a variety of pathogens as we will become staff of the C.D.C. and investigate a breakout! We will have a blast building an edible flu model! Students will explore the history of epidemiology and some of the deadliest diseases. We will wrap up exploring prevention and treatment of disease in our society.
- **Activities:** Investigate a simulated breakout, build an edible flu model, and explore pathogen case studies
- **Take Home:** Edible flu model
- **Live Animal Option**: Maizey, the corn snake
- **Career(s) Explored:** Epidemiologist