



NC 4-H School Enrichment Programs
STEM & Healthy Living

STEM Menu			
Title	Grade	Description	Kits Available
Bug Out	2 nd	Structures & Functions of Living Organisms: Understanding animal life cycles (2.L.1.1 & 2.L.1.2)	
Embryology - <i>Hatching</i>	2 nd	Structures & Functions of Living Organisms: Understanding animal life cycles (2.L.1.1)	
Butterfly's - <i>Wings</i>	2 nd	Structures & Functions of Living Organisms: Understanding animal life cycles (2.L.1.1)	*2017 Release
<i>Soil Solutions</i>	3 rd	Ecosystems: How Plants Survive in their Environments (3.L.2.1 – 3.L.2.4)	
<i>Astronomy - Shoot for the Stars</i>	3 rd	Earth in the Universe: Recognize the Major Components on the Solar System (3.E.1.1 & 3.E.1.2)	
<i>Magic of Electricity</i>	4 th	Energy Conservation & Transfer: Energy Takes Various Forms that can be Grouped Based on their Interaction with Matter. (4.P.3.1 & 4.P.3.2)	
Bees & Pollinators - <i>Hive Helper's</i>	4 th	Ecosystems & Life Science: (NC: 4.L.1 - 4)	*2017 Release
Microbiology – <i>I am an Ecosystem</i>	5 th	Structures and Functions of Living Organisms: Understand how structures and systems organisms (to include the human body) perform functions necessary for life. (5.L.1.1 – 2.) Ecosystems: Understand the interdependence of plants and animals with their ecosystem. (5.L.2.1. – 2.3.) Evolution and Genetics: Understand why organisms differ from or are similar to their parents based on the characteristics of the organism. (5.L.3.1. -2.)	
Vermicomposting	5 th	Ecosystems: Understanding the Interdependence of Plants & Animals within their Ecosystems (5.L.2.1. – 5.L.2.3)	
Energy Transformation	6 th	Energy Conservation and Transfer: Understand Characteristics of Energy Transfer and Interactions of Matter & Energy (6.P.3 – 6.P.3.3)	
<i>Astronomy - Shoot for the Stars</i>	6 th	Earth in the Universe: Recognize the Major Components on the Solar System (6.E.1 – 6.E.1.3)	
Embryology - <i>Experiments / Poultry Power of Wind Science</i>	7 th	Structures & Functions of Living Organisms: Under the process, structures and functions of living organisms that enable them to survive. (7.L.1 – 7.L.2.3)	
The Power of Wind	7 th	Energy Conservation and Transfer: Understand forms of Energy, Energy Transfer and Transformation and Conservation in Mechanical Systems (7.P.2 – 7.P.2.4)	
Microbiology – <i>Microbes on My Mind</i>	8 th	Structures and Functions of Living Organisms: Understand the hazards caused by agents of diseases that effect living organisms. (8.L.1.1. – 2.)	

		Molecular Biology: Understand the composition of various substances as it relates to their ability to serve as a source of energy and building materials for growth and repair of organisms. (8.L.5.1. -2.)	
Bioenergy – Farm Based Fuels	8th	Energy – Conservation and Transfer: Explain the environmental implications associated with the various methods of obtaining, managing, and using energy resources. (8.P.2.1. – 2.)	
Soil to Seed	8 th	Earth Systems, Structures and Process: Understand the hydrosphere and the impact of humans on the local systems and the effects of the hydrosphere on humans. (8.E.1.3 – 4.)	
Soil to Seed	9 th	Earth Systems, Structures and Process: Explain the structure and the process within the hydrosphere and evaluate how humans use water. (EEn2.3.1 – 2.4.2)	

Healthy Living Menu

Title	Grade	Description	Curricula Available
Calcium – <i>Be a Bone Builder</i>	K	Nutrition and Physical Activity: Understanding MyPlate as a tool for selecting nutritious foods. Understanding the importance of consuming a variety of nutrient dense foods and beverages in moderation. (K.NPA.1 /1..1 – 1.3 & K.NPA.2 / 2.1 - 2.2)	*2017 Release
HealthRocks©	4 th	Mental and Emotional Health: Apply Positive Stress Management Strategies: Understand relationship between healthy expression of emotions, mental health, and healthy behavior. (4MEH1.1. – 2. and 4.MEH2.1. – 2.) Alcohol, Tobacco, and Other Drugs: Understand the health risks associated with alcohol, tobacco, and other drug use. Apply risk reeducation behaviors to protect self and others from alcohol, tobacco, and other drug use. (4ATOD.1 – 3)	
HealthRocks©	5 th	Mental and Emotional Health: Apply Positive Stress Management Strategies. (5.MEH1.1. – 2.) Personal and Consumer Health: Analyze health products and sources of health information. (5.PCH.2.1. – 2.) Alcohol, Tobacco, and Other Drugs: Understand the health risks associated with alcohol, tobacco, and other drug use. Apply risk reeducation behaviors to protect self and others from alcohol, tobacco, and other drug use. (4ATOD.1 – 3)	
HealthRocks©	6 th	Mental and Emotional Health: Analyze the potential outcome of positive stress management techniques. (6.MEH.2.1 -2.)	

		<p>Personal and Consumer Health: Analyze health information and products. (6.PCH.2.1. – 2.2.)</p> <p>Alcohol, Tobacco, and Other Drugs: Understand the health risks associated with alcohol, tobacco, and other drug use. Apply risk reeducation behaviors to protect self and others from alcohol, tobacco, and other drug use. (6ATOD.1.1. – 3.2.)</p>	
HealthRocks©	7 th	<p>Mental and Emotional Health: Evaluate positive stress management techniques. (7.MEH.2.1 -2.2.)</p> <p>Personal and Consumer Health: Evaluate health information and products. (7.PCH.1.1. – 3.2.)</p> <p>Alcohol, Tobacco, and Other Drugs: Understand the health risks associated with alcohol, tobacco, and other drug use. Apply risk reeducation behaviors to protect self and others from alcohol, tobacco, and other drug use. (7ATOD.1.1. – 2.2.)</p>	
HealthRocks©	8 th	<p>Mental and Emotional Health: Create positive stress management strategies. (8.MEH.1.1 -1.2.)</p> <p>Personal and Consumer Health: Evaluate health information and products. (8.PCH.2.1. – 2.2.)</p> <p>Alcohol, Tobacco, and Other Drugs: Analyze influences related to alcohol, tobacco, and other drug use and avoidance. Understand the health risks associated with alcohol, tobacco, and other drug use. Apply risk reeducation behaviors to protect self and others from alcohol, tobacco, and other drug use. (8ATOD.1.1. – 3.3.)</p>	