

Pennsylvania Academic Standards for Science and Technology
Curriculum: *Catch the Bug*

Lesson	Academic Standards	Grade Level	Activities
Let's Get Buggy	3.7.4.B. Select appropriate instruments to study materials.	4	Learn about insect habitat. Construct an insect collection net, as well as discuss proper record-keeping techniques.
Bug Basics	3.1.4.A. Know that natural and human-made objects are made up of parts. 3.3.10.A. Explain the structural and functional similarities and differences found among living things.	4 10	Identify insect body parts and how they are used. Learn to classify insects into classes. Construct a killing jar, and discuss methods for catching different types of insects.
Up, Up and Away!	3.1.4.A. Know that natural and human-made objects are made up of parts. 3.3.4.A. Know the similarities and differences of living things.	4 4	Learn different mouthpart and wing types, as well as discuss different types of metamorphosis. Learn how to correctly pin and display different types of insects.
May I Take Your Order?	3.3.4.A. Know the similarities and differences of living things.	4	Introduce the ten most common insect orders and the characteristics of those orders. Construct a spreading board.

<p>Small Fries</p>	<p>3.3.4.A. Know the similarities and differences of living things.</p> <p>3.3.7.A. Describe the similarities and differences that characterize diverse living things.</p> <p>3.3.10.A. Explain the structural and functional similarities and differences found among living things.</p>	<p>4</p> <p>7</p> <p>10</p>	<p>Introduce the less common insect orders and their characteristics.</p> <p>Learn how to use a key to identify insects. Learn how to properly mount and label small insects.</p>
<p>What's in a Name?</p>	<p>3.3.4.A. Know the similarities and differences of living things.</p> <p>3.3.7.A. Describe the similarities and differences that characterize diverse living things.</p> <p>3.3.10.A. Explain the structural and functional similarities and differences found among living things.</p> <p>3.7.4.B. Select appropriate instruments to study materials.</p>	<p>4</p> <p>7</p> <p>10</p> <p>4</p>	<p>Learn the scientific names of insects and the correct way to write them, and then use these names to explain how insect common names can be deceiving.</p> <p>Construct a collection box or display case.</p>

Snappy Traps	3.2.4.C. Recognize and use the elements of scientific inquiry to solve problems.	4	Learn methods to trap different insects and study their life cycles.
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Pennsylvania Academic Standards for Environment and Ecology
Curriculum: *Catch the Bug*

Lesson	Academic Standard	Grade Level	Activities
<p style="text-align: center;">Let's Get Buggy</p>	<p>4.6.4.A. Understand that living things are dependent on non-living things in the environment for survival.</p>	4	<p>Learn about insect habitat. Construct an insect collection net, as well as discuss proper record-keeping techniques.</p>
	<p>4.7.4.A. Identify differences in living things.</p>	4	
<p style="text-align: center;">Up, Up and Away!</p>	<p>4.7.4.A. Identify differences in living things.</p>	4	<p>Learn different mouthpart and wing types, as well as discuss different types of metamorphosis. Learn how to correctly pin and display different types of insects.</p>
<p style="text-align: center;">May I Take Your Order?</p>	<p>4.7.4.A. Identify differences in living things.</p>	4	<p>Introduce the ten most common insect orders and the characteristics of those orders. Construct a spreading board.</p>
<p style="text-align: center;">Fun in the Field!</p>	<p>4.1.4.C. Identify living things found in water environments.</p>	4	<p>Practice insect collecting, identification, and record keeping in the field. Discuss environmental regulations that limit collection in some areas.</p>
	<p>4.7.4.C. Define and understand extinction.</p>	4	

Fun in the Field! (continued)	4.9.4.A. Know that there are laws and regulations for the environment.	4	
Small Fries	4.7.4.A. Identify differences in living things.	4	Introduce the less common insect orders and their characteristics. Learn how to use a key to identify insects. Learn how to properly mount and label small insects.