Festival FEATURES, TOPICS, and SOLs

**Grades 6-8**

|  |  |  |
| --- | --- | --- |
| **FEATURE TITLE** | **TOPICS** |  |
| **Agriculture** | **Adaptations/Anatomy** | **Careers** | **Classification/ID** | **Conservation** | **Food Web/Diet** | **Habitats/Ecosystems** | **Human Health/Safety** | **Insect Products (Natural Resources)** | **Interdependence** | **Life Cycles** | **Pest/Biological Control** | **Pest/Beneficial Insects** | **Science SOLs****&****Other Notes** |
| ***EXHIBIT INFO & PHOTO GALLERIES*** |
| [Bugs: The Good, Bad, Big, and the Business](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/VPMA.html) |  |  |  |  |  |  |  |  |  |  |  |  |  | LS.10, LS.11d |
| [Forest Entomology](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/Forestent.html) *(invasive species and biological control)* |  |  |  |  |  |  |  |  |  |  |  |  |  | LS.4d, LS.6c, LS.8, LS.10b, LS.11d |
| [Close Encounters With Pollinators](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/NRVMNMAIN.html) *(SWVA pollinators)* |  |  |  |  |  |  |  |  |  |  |  |  |  | LS.4 |
| [Entomo-3D](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/3dbugs.html) |  |  |  |  |  |  |  |  |  |  |  |  |  | *Technology* |
| [The Poop on Bug Poop!](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/bugpoop.html) *(use w/ Bug Poop Matching Game)* |  |  |  |  |  |  |  |  |  |  |  |  |  | LS.4 |
| [Entomophagy: Would You Eat an Insect?](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/entomophagy.html) *(includes recipe)* |  |  |  |  |  |  |  |  |  |  |  |  |  | LS.11a |
| [Wonderful & Fascinating Insects](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/Mullins.html) | *Links to insect-related videos, activities, publications, art, and career information.* |
| [Fruit Entomology](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/fruitent.html) *(photos of cicada tacos!)* |  |  |  |  |  |  |  |  |  |  |  |  |  | LS.11 |
| ***FUN FACTS & PUBLICATIONS*** |
| [Pollinator Garden Resources](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/pollinatorgarden.html)*(for individuals and schools)* |  |  |  |  |  |  |  |  |  |  |  |  |  | LS.4, LS.6, LS.8d, LS.10 |
| [Adventures With Insects](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/Virginia4h.html) *(includes Insect Collection activity)* |  |  |  |  |  |  |  |  |  |  |  |  |  | LS.4, LS.9c |
| [What’s Growing On in Virginia](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/Agintheclassroom.html)? *(includes 2 activities)* |  |  |  |  |  |  |  |  |  |  |  |  |  | Science: LS.8, LS.12; Math: 6.9, 7.9 |
| [Honey Bee](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/Agintheclassroom.html)s *(PowerPoint)* |  |  |  |  |  |  |  |  |  |  |  |  |  | 6.9a, LS.4d, LS.7, LS.9c |
| [10 Amazing Bee Facts](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/Agintheclassroom.html) |  |  |  |  |  |  |  |  |  |  |  |  |  | 6.9a, LS.7, LS.9bc |
| [Orb Web Construction and Features](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/OpellLab.html) & [Web Decorations](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/OpellLab.html) |  |  |  |  |  |  |  |  |  |  |  |  |  | LS.8, LS.9c |
| [Common Orb Weaving Spiders of Virginia](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/OpellLab.html) |  |  |  |  |  |  |  |  |  |  |  |  |  | LS.4d, LS.9 |
| [Tick ID and Pathogens](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/Eastwood.html) &[Local Tick ID Sheet](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/Eastwood.html) |  |  |  |  |  |  |  |  |  |  |  |  |  | LS.4 |
| [What About Bug Poop?](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/bugpoop.html) |  |  |  |  |  |  |  |  |  |  |  |  |  | LS.6cd, LS.8, LS.9c, LS.10b |
| Spongy Moth (Formerly [Gypsy Moth](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/GypsyMoths.html)) |  |  |  |  |  |  |  |  |  |  |  |  |  | LS.10b, LS.11d |
| **FEATURE TITLE** | **TOPICS** | **Science SOLs** **&** **Other Notes** |
| **Agriculture** | **Adaptations/Anatomy** | **Careers** | **Classification/ID** | **Conservation** | **Food Web/Diet** | **Habitats/Ecosystems** | **Human Health/Safety** | **Insect Products (Natural Resources)** | **Interdependence** | **Life Cycles** | **Pest/Biological Control** | **Pest/Beneficial Insects** |
| ***VIDEOS*** |
| [All About Bugs and Good Bugs](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/VPMA.html) |  |  |  |  |  |  |  |  |  |  |  |  |  | 6.9a; LS.4, LS.5c, LS.7, LS.8, LS.9bc |
| [Bad and Big Insects](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/VPMA.html) |  |  |  |  |  |  |  |  |  |  |  |  |  | 6.9a; LS.4, LS.5c, LS.7, LS.8, LS.9bc |
| [What Can an Entomologist Do?](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/VPMA.html) |  |  |  |  |  |  |  |  |  |  |  |  |  | *Jobs in entomology* |
| [Lari Larvae](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/Forestent.html) & [Leuco Larvae](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/Forestent.html) |  |  |  |  |  |  |  |  |  |  |  |  |  | *Larvae hatching* |
| [Bed Bug Egg 6-Day Timelapse](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/urbanent.html) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [Bed Bug Feeding & Digestion](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/urbanent.html) |  |  |  |  |  |  |  |  |  |  |  |  |  | LS.9c  |
| [Bees and Beekeeping](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/Agintheclassroom.html) |  |  |  |  |  |  |  |  |  |  |  |  |  | 6.9a, LS.7, LS.9bc |
| [Bees Processing Honey](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/Agintheclassroom.html) |  |  |  |  |  |  |  |  |  |  |  |  |  | LS.11 |
| [Orb Weaver Builds Her Web](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/OpellLab.html) |  |  |  |  |  |  |  |  |  |  |  |  |  | LS.8, LS.9 |
| [Mosquito Anatomy](https://youtu.be/_RowUXPTWT0) |  |  |  |  |  |  |  |  |  |  |  |  |  | *Detailed overview + zoom images* |
| [Lahondere and Vinauger Labs](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/mosquitolab.html)  |  |  |  |  |  |  |  |  |  |  |  |  |  | *Technology & research* |
| [The Most Dangerous Animal in the World](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/mosquitolab.html) |  |  |  |  |  |  |  |  |  |  |  |  |  | LS.6cd, LS.7, LS.8, LS.9bc |
| [Learn Mosquito Behavior to Prevent Disease Spread](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/mosquitolab.html) |  |  |  |  |  |  |  |  |  |  |  |  |  | *Technology; pesticide resistance* |
| Bugs and Wildlife: [Part 1](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/SWVAWildlife.html) & [Part 2](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/SWVAWildlife.html) *(4 min. each)* |  |  |  |  |  |  |  |  |  |  |  |  |  | LS.8, LS.9 |
| [Ferocious Hellgrammites!](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/natureatyourdoor.html) |  |  |  |  |  |  |  |  |  |  |  |  |  | 6.7, LS.4, LS.6c, LS.8abc, LS.9bc |
| [Milkweed Bugs](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/natureatyourdoor.html) |  |  |  |  |  |  |  |  |  |  |  |  |  | LS.4, LS.6c, LS.7, LS.8, LS.9bc |
| [Ant Lions](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/natureatyourdoor.html) |  |  |  |  |  |  |  |  |  |  |  |  |  | LS.6cd, LS.8abc, LS.9c |
| [Mabel – The Bug That Poops Candy](https://youtu.be/LVdynVuJsBo) *(plant physics/chemistry)* |  |  |  |  |  |  |  |  |  |  |  |  |  | LS.5c, LS.6, LS.8abcd, LS.9c |
| [How Do Insects Poop?](https://youtu.be/6a8psEYgopw) |  |  |  |  |  |  |  |  |  |  |  |  |  | LS.6c, LS.7, LS.8acd, LS.9c |
| [Tour the Hokie BugZoo](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/bugzoo.html) *(8 videos, 3-4 min. each)* |  |  |  |  |  |  |  |  |  |  |  |  |  | LS.4, LS.c, LS.7, LS.8, LS.9cf |
| [Blatteria 1000](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/blatteria-1000.html) *(cockroach races)* |  |  |  |  |  |  |  |  |  |  |  |  |  | *Just for fun!* |
| [12 Bug Words in Sign Language](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/SignLanguage.html) |  |  |  |  |  |  |  |  |  |  |  |  |  | *Language* |
| [Periodical Cicada Appearances and Mgmt.](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/fruitent.html) |  |  |  |  |  |  |  |  |  |  |  |  |  | LS.8, LS.9, LS.10, PS.8 (@3:28min.) |
| **FEATURE TITLE** | **TOPICS** | **Science SOLs** **&** **Other Notes** |
| **Agriculture** | **Adaptations/Anatomy** | **Careers** | **Classification/ID** | **Conservation** | **Food Web/Diet** | **Habitats/Ecosystems** | **Human Health/Safety** | **Insect Products (Natural Resources)** | **Interdependence** | **Life Cycles** | **Pest/Biological Control** | **Pest/Beneficial Insects** |
| ***ACTIVITIES*** |
| [Build an Insect Collection](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/Virginia4h.html) *(individual or as a class)* |  |  |  |  |  |  |  |  |  |  |  |  |  | 6.1ai; LS.1bd, LS.4, LS.9c |
| [Invent an Insect](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/Virginia4h.html) |  |  |  |  |  |  |  |  |  |  |  |  |  | LS.4, LS.9c |
| [Interesting Insects](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/Virginia4h.html) |  |  |  |  |  |  |  |  |  |  |  |  |  | LS.4, LS.9c |
| Coloring/activity sheets:[Rearing *Laricobius nigrinus*](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/Forestent.html)[Emerald Ash Borer](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/Forestent.html)[Tree ID](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/Forestent.html) & [Biological Control](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/Forestent.html) |  |  |  |  |  |  |  |  |  |  |  |  |  | LS.4d, LS.6c, LS.8, LS.10b, LS.11d*Biological control* |
| [Pesticide Safety: Kids Only!](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/VDACS.html) |  |  |  |  |  |  |  |  |  |  |  |  |  | LS.4, LS.8, LS.11 |
| [The Honey Dance](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/Agintheclassroom.html) |  |  |  |  |  |  |  |  |  |  |  |  |  | LS.9c |
| [Anatomy of a Worker Bee](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/Agintheclassroom.html) &[Research Different Bees](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/Agintheclassroom.html)*(use w/ Honey Bees PowerPoint, a fun facts publication)* |  |  |  |  |  |  |  |  |  |  |  |  |  | LS.4d, LS.7, LS.9c |
| Busy Bees & Hexagon Hives *(from* [*“What’s Growing On in Virginia?”*](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/Agintheclassroom.html) *fun facts publication)* |  |  |  |  |  |  |  |  |  |  |  |  |  | Science: LS.8, LS.12; Math: 6.9, 7.9 |
| [Identify These Mosquitoes](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/Eastwood.html)*(use with “All About Mosquitoes” fun facts publication)* |  |  |  |  |  |  |  |  |  |  |  |  |  | *Using a dichotomous key* |
| Tick Activities: [Crossword](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/Eastwood.html)[Word Search,](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/Eastwood.html) & [Coloring Page](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/Eastwood.html) |  |  |  |  |  |  |  |  |  |  |  |  |  | LS.8 |
| [Flower Parts Activity](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/NRVMNMAIN.html) |  |  |  |  |  |  |  |  |  |  |  |  |  | LS.5c, LS.6c, LS.9c |
| [Anatomy of a Bee and Butterfly](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/NRVMNMAIN.html) |  |  |  |  |  |  |  |  |  |  |  |  |  | LS.5c, LS.6c, LS.9c |
| [Pollinator Matching Game](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/NRVMNMAIN.html) |  |  |  |  |  |  |  |  |  |  |  |  |  | LS.4, LS.9c |
| [Preserve a Flower](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/NRVMNMAIN.html) & [ID Card](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/NRVMNMAIN.html) |  |  |  |  |  |  |  |  |  |  |  |  |  | LS.4, LS.5c |
| [3D Insects](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/3dbugs.html)*(can be found under “Video” tab)* |  |  |  |  |  |  |  |  |  |  |  |  |  | *High def images you can rotate and zoom* |
| [Backyard Scavenger Hunt](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/celebratingpollinators.html) |  |  |  |  |  |  |  |  |  |  |  |  |  | LS.4, LS.5c |
| [Insect Hotel for Pollinators](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/celebratingpollinators.html) |  |  |  |  |  |  |  |  |  |  |  |  |  | LS.4, LS.5c. *Can use rolled paper too* |
| [Bee Day Cake Pops](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/celebratingpollinators.html) *(recipe)* |  |  |  |  |  |  |  |  |  |  |  |  |  | *Cooking* |
| [Bug Poop Matching Game](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/bugpoop.html) *(use w/ Bug Poop Photo Gallery)* |  |  |  |  |  |  |  |  |  |  |  |  |  | LS.4 |
| [Grasshopper Pie](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/virtual-hokie-bugfest/entomophagy.html) *(instructional video w/ recipe)* |  |  |  |  |  |  |  |  |  |  |  |  |  | *Cooking* |