Festival FEATURES, TOPICS, and SOLs

**Grades 3-5**

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| **FEATURE TITLE** | **TOPICS** | | | | | | | | | | | **Science SOLs**  **&**  **Other Notes** |
| **Agriculture** | **Adaptations/Anatomy** | **Careers** | **Classification/ID** | **Conservation/Protection** | **Food Web/Diet** | **Habitats/Ecosystems** | **Insect Products (Natural Resources)** | **Interdependence** | **Life Cycles** | **Pest/Beneficial Insects** |
| ***EXHIBIT INFO & PHOTO GALLERIES*** | | | | | | | | | | | | |
| [Close Encounters With Pollinators](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/NRVMNMAIN.html) *(SWVA pollinators)* |  |  |  |  |  |  |  |  |  |  |  |  |
| [The Poop on Bug Poop!](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/bugpoop.html) *(use w/ Bug Poop Matching Game)* |  |  |  |  |  |  |  |  |  |  |  | 3.1ab, 4.1a |
| [Wonderful & Fascinating Insects](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/Mullins.html) | *Links to insect-related videos, activities, publications, art, and career information.* | | | | | | | | | | | |
| ***FUN FACTS & PUBLICATIONS*** | | | | | | | | | | | | |
| [Pollinator Garden Resources](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/pollinatorgarden.html)  *(for individuals and schools)* |  |  |  |  |  |  |  |  |  |  |  | 3.6bcd, 3.10, 4.5, 4.9a |
| [Adventures With Insects](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/Virginia4h.html) *(includes Insect Collection activity)* |  |  |  |  |  |  |  |  |  |  |  | 3.4b, 3.6ab, 3.8b, 4.5abd, 4.9b, 5.5bc |
| [Winnie the Pooh Booklet](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/Agintheclassroom.html)  *(short story w/ 10 activities)* |  |  |  |  |  |  |  |  |  |  |  | 3.4, 3.6cd, 4.4, 4.5, 5.5bc |
| [What’s Growing On in Virginia](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/Agintheclassroom.html)? *(includes 2 activities)* |  |  |  |  |  |  |  |  |  |  |  | 3.4ab, 3.8bc, 3.10a, 4.4, 4.5, 5.5 |
| [Honey Bee](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/Agintheclassroom.html)s *(PowerPoint)* |  |  |  |  |  |  |  |  |  |  |  | 3.4b; 4.5, 5.5bc |
| [10 Amazing Bee Facts](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/Agintheclassroom.html) |  |  |  |  |  |  |  |  |  |  |  | 3.4b; 4.5, 4.9a, 5.5bc |
| [What About Bug Poop?](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/bugpoop.html) |  |  |  |  |  |  |  |  |  |  |  | 3.4, 3.5, 4.5, 5.5 |
| ***VIDEOS*** | | | | | | | | | | | | |
| [All About Bugs and Good Bugs](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/VPMA.html) |  |  |  |  |  |  |  |  |  |  |  | 3.4ab, 3.5abc, 3.6abc, 4.5, 5.5bc |
| [Bad and Big Insects](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/VPMA.html) |  |  |  |  |  |  |  |  |  |  |  | 3.4ab, 3.5abc, 3.6ab; 4.5abcd, 5.5bc, 5.7c |
| [What Can an Entomologist Do?](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/VPMA.html) |  |  |  |  |  |  |  |  |  |  |  | *Jobs in entomology* |
| [Bed Bug Feeding and Digestion](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/urbanent.html) |  |  |  |  |  |  |  |  |  |  |  | 3.4b, 4.5a, 5.5c |
| [Bees and Beekeeping](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/Agintheclassroom.html) |  |  |  |  |  |  |  |  |  |  |  | 3.4, 3.6cd, 4.4, 4.5, 5.5bc |
| [Bees Processing Honey](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/Agintheclassroom.html) |  |  |  |  |  |  |  |  |  |  |  | 4.9 |
| [The Buzz on Bees](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/Agintheclassroom.html) *(includes Pollination Pizazz activity)* |  |  |  |  |  |  |  |  |  |  |  | 3.8, 3.10a, 4.4, 5.5bc |
| 2 Pandapas Pond Visits: [Secret Garden](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/NRVMNMAIN.html) & [Pollinator Garden](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/NRVMNMAIN.html) |  |  |  |  |  |  |  |  |  |  |  | 3.6b, 3.8bc, 3.10ad, 4.4, 4.5, 5.5 |
| Bugs and Wildlife: [Part 1 & 2](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/SWVAWildlife.html) |  |  |  |  |  |  |  |  |  |  |  | 3.4, 3.5, 3.10, 4.5, 4.9a, 5.5 |
| **FEATURE TITLE** | **TOPICS** | | | | | | | | | | | **Science SOLs**  **&**  **Other Notes** |
| **Agriculture** | **Adaptations/Anatomy** | **Careers** | **Classification/ID** | **Conservation/Protection** | **Food Web/Diet** | **Habitats/Ecosystems** | **Insect Products (Natural Resources)** | **Interdependence** | **Life Cycles** | **Pest/Beneficial Insects** |
| [Ferocious Hellgrammites!](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/natureatyourdoor.html) |  |  |  |  |  |  |  |  |  |  |  | 3.4ab, 3.5, 3.6ac, 3.8b, 4.5, 4.9a, 5.5ab |
| [Milkweed Bugs](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/natureatyourdoor.html) |  |  |  |  |  |  |  |  |  |  |  | 3.1ab, 3.4ab, 3.8b, 3.10, 4.1ab, 4.5acd, 4.9a, 5.5ab |
| [Ant Lions](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/natureatyourdoor.html) |  |  |  |  |  |  |  |  |  |  |  | 3.4ab, 3.5, 4.5acd, 4.9a, 5.5ab |
| [Mabel – The Bug That Poops Candy](https://youtu.be/LVdynVuJsBo) *(plant physics/chemistry)* |  |  |  |  |  |  |  |  |  |  |  | 3.4ab, 3.5, 3.8b, 3.10a, 4.4, 4.5abc, 5.5ab |
| [How Do Insects Poop?](https://youtu.be/6a8psEYgopw) |  |  |  |  |  |  |  |  |  |  |  | 3.4ab, 3.5, 4.5ab, 5.5b |
| [Tour the Hokie BugZoo](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/bugzoo.html)  *(8 videos 3-4 min. each)* |  |  |  |  |  |  |  |  |  |  |  | 3.1b, 3.4ab, 3.5, 3.8b, 3.10a, 4.1ab, 4.5abcd, 5.5ab |
| [Blatteria 1000 Cockroach Race](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/blatteria-1000.html) |  |  |  |  |  |  |  |  |  |  |  | *Just for fun!* |
| [12 Bug Words in Sign Language](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/SignLanguage.html) |  |  |  |  |  |  |  |  |  |  |  | *Language* |
| ***ACTIVITIES*** | | | | | | | | | | | | |
| [Build an Insect Collection](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/Virginia4h.html) *(individual or as a class)* |  |  |  |  |  |  |  |  |  |  |  | 3.1abl, 3.4b, 3.6ab, 3.8b, 4.1abl, 4.5, 4.9b, 5.1aj, 5.5 |
| [Invent an Insect](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/Virginia4h.html) |  |  |  |  |  |  |  |  |  |  |  | 3.4b, 3.6ab, 4.5ad, 5.5bc |
| [Interesting Insects](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/Virginia4h.html) |  |  |  |  |  |  |  |  |  |  |  | 3.4b, 4.5ad, 4.9d, 5.5bc |
| [Pollination Activity Collection](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/Agintheclassroom.html)  *(4 activities)* |  |  |  |  |  |  |  |  |  |  |  | 3.8, 3.10a, 4.4 |
| [The Honey Dance](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/Agintheclassroom.html) |  |  |  |  |  |  |  |  |  |  |  | 3.4a, 4.5, 5.5bc |
| [Anatomy of a Worker Bee](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/Agintheclassroom.html)  [Research Different Bees](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/Agintheclassroom.html)  *(use w/ Honey Bees PowerPoint)* |  |  |  |  |  |  |  |  |  |  |  | 3.4b, 4.5, 5.5bc |
| [The Buzz! Game](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/Agintheclassroom.html) | *Games, lesson plans, etc. that cover multiple topics and SOLs (including math and English)* | | | | | | | | | | | |
| Busy Bees & Hexagon Hives *(from* [*“What’s Growing On in Virginia?”*](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/Agintheclassroom.html) *fun facts publication)* |  |  |  |  |  |  |  |  |  |  |  | 4.4 |
| Pollination Pizazz  *(from* [*The Buzz on Bees*](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/Agintheclassroom.html) *video)* |  |  |  |  |  |  |  |  |  |  |  | 3.8, 3.10a, 4.4, 5.5bc |
| Tick activities: [Word Search](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/Eastwood.html) & [Coloring Page](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/Eastwood.html) |  |  |  |  |  |  |  |  |  |  |  |  |
| [Mosquito Coloring Page](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/Eastwood.html) |  |  |  |  |  |  |  |  |  |  |  | *Art* |
| [Flower Parts Activity/Design Your Own Flower](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/NRVMNMAIN.html) |  |  |  |  |  |  |  |  |  |  |  | 3.4a, 3.10a, 4.4, 4.5a, 5.5ab |
| [Anatomy of a Bee and Butterfly](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/NRVMNMAIN.html) |  |  |  |  |  |  |  |  |  |  |  | 3.4a, 3.10a, 4.5a, 5.5ab |
| [Pollinator Matching Game](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/NRVMNMAIN.html) |  |  |  |  |  |  |  |  |  |  |  | 3.1ab, 3.4a, 4.1a, 4.5a, 4.9a, 5.5ab |
| [Preserve a Flower](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/NRVMNMAIN.html) and [ID Card](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/NRVMNMAIN.html) |  |  |  |  |  |  |  |  |  |  |  | 3.6b, 4.4, 4.5d, 5.5a |
| **FEATURE TITLE** | **TOPICS** | | | | | | | | | | | **Science SOLs**  **&**  **Other Notes** |
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| [Scavenger Hunt at Pandapas Pond](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/NRVMNMAIN.html) |  |  |  |  |  |  |  |  |  |  |  | 3.1ab, 3.6b, 4.1ab, 4.5d, 5.5a |
| [3D Insects](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/3dbugs.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/HokieBugFest20210/celebratingpollinators.html)  *(Win a prize!)* |  |  |  |  |  |  |  |  |  |  |  | 3.1ab, 3.6b, 4.1ab, 4.5d, 5.5a |
| [Insect Hotel for Pollinators](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/celebratingpollinators.html) |  |  |  |  |  |  |  |  |  |  |  | 3.10d, 4.5d  *Can use rolled paper too* |
| [Recycled Magazine Butterflies](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/celebratingpollinators.html) |  |  |  |  |  |  |  |  |  |  |  | *Art* |
| [Bee Day Cake Pops](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/celebratingpollinators.html) *(recipe)* |  |  |  |  |  |  |  |  |  |  |  | *Cooking* |
| [Bug Poop Matching Game](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/bugpoop.html)  *(use w/ Bug Poop Photo Gallery)* |  |  |  |  |  |  |  |  |  |  |  | 3.1ab, 4.1a |
| [Stream Field Trip Activity](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/NRVlandtrust.html) |  |  |  |  |  |  |  |  |  |  |  | 3.1ab, 3.6ad, 3.10, 4.1ab, 4.5d, 4.9 |
| [Painting Ladybugs w/ Maria](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/Socha.html)  *(9 min. instructional video*) |  |  |  |  |  |  |  |  |  |  |  | 3.4a, 4.5ad, 4.9a, 5.5a |
| [Cooking Mud Worms w/ Terrell](https://www.ento.vt.edu/4-H_Entomology/hokiebugfest/HokieBugFest20210/Socha.html) *(8:50 min. instructional video)* |  |  |  |  |  |  |  |  |  |  |  | 3.4a, 3.5, 4.5abd, 5.5ab  *Cooking* |