



## Beetles, Bugs & Butterflies Academic Standards

### Beetles, Bugs, and Butterflies Grades Pre-K–2

This artful approach to science motivates students to explore the world of insects while learning about adaptations, physiology, and the role insects play in their daily lives. Colorful, take-home art projects creatively reinforce scientific concepts.

#### Academic Standards

##### Science GLEs

##### Pre-Kindergarten

(PK-CS-I1) (SI-E-A1) Ask questions about objects and events in the environment (e.g., plants, rocks, storms)

(PK-CS-I1) (SI-E-A1) Pose questions that can be answered by using students' own observations and scientific knowledge

(PK-CS-L1) (LS-E-A4) Give examples of different kinds of plants and different kinds of animals

(PK-CS-L1) (LS-E-C1) Describe plants and animals in the schoolyard or home environments

##### Grade K

(SI-E-A1) Pose questions that can be answered by using students' own observations and scientific knowledge

(LS-E-A) Identify easily observable variations within types of plants and animals (e.g., features of classmates, varieties of trees, breeds of dogs)

(LS-E-B1) Observe life cycles and describe changes (e.g., humans, dogs, insects)

##### Grade 1

(SI-E-A1) Pose questions that can be answered by using students' own observations and scientific knowledge

(LS-E-C1) Describe features of some animals that benefit them in their environments

(LS-E-A3) Describe basic functions of parts of the body (e.g., lungs, heart, bones, muscles)

##### Grade 2

(SI-E-A1) Pose questions that can be answered by using students' own observations, scientific knowledge, and testable scientific investigations

(LS-E-A4) Identify physical characteristics of selected organisms (e.g., worms, amphibians, plants)

(LS-E-B1) Compare the life cycles of selected organisms (e.g., mealworm, caterpillar, tadpole)

(LS-E-B3) Describe inherited characteristics of living things



## **Art Benchmarks**

### **Kindergarten**

(VA-CE-E5) Students will draw on imagination, individual experiences, and group activities to generate ideas for visual expression

### **Grade 1**

(VA-CE-E5) Students will draw on imagination, individual experiences, and group activities to generate ideas for visual expression

### **Grade 2**

(VA-CE-E5) Students will draw on imagination, individual experiences, and group activities to generate ideas for visual expression