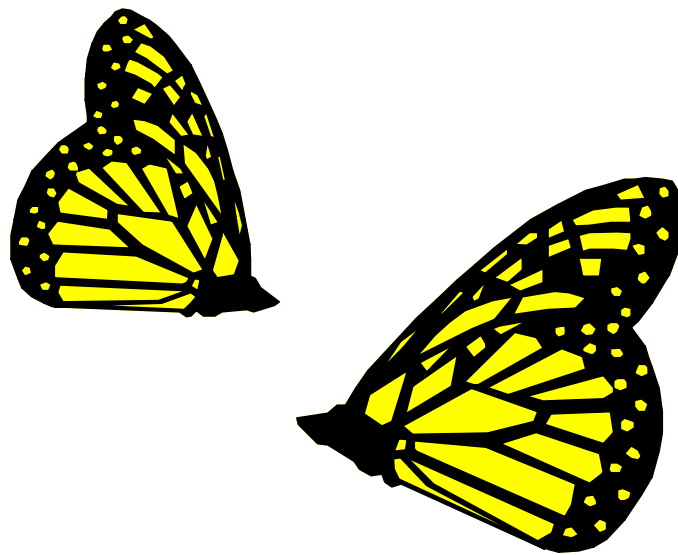


Butterflies
Elementary Science Module

Grades 3-4

by
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Northeast Regional MAP Center

Butterflies

Purpose: This module is designed to assess a student's knowledge of butterflies. It can be used after studying a unit on insects which includes butterflies. The student is asked to use his/her knowledge of butterflies to answer a number of questions, to create a diagram showing the four stages of the metamorphosis of a butterfly, to compare a butterfly to an ant, and to write a paragraph explaining what it would be like to be a butterfly.

Show-Me Standards Addressed:

Knowledge: S3

Performance: 3.5, 4.1

Grade Level Range: 3-4

Subject Area(s): Science

Materials and Resources Needed: pencil, module packet which includes the four student response sheets.

Time Needed for Task: two 30 minute class periods

Instructions for Administration: Provide students with a module packet. Explain the directions verbally and discuss the scoring guides so the students know what a quality response involves.

Pre-Assessment Instructions: Students will need the prerequisite knowledge of: butterflies and insects, the concept of symmetry, how to do multiplication, how to complete a graphic organizer, and how to write a simple paragraph using details to provide support.

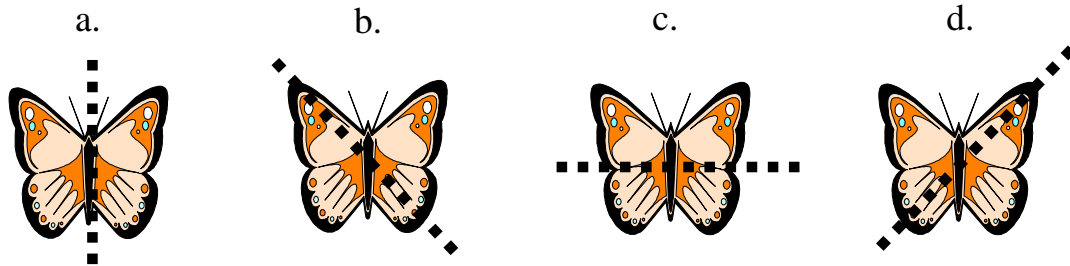


Student Response Sheet #1

Butterflies



1. Which stage in the life cycle of a butterfly follows the adult stage?
 - a. adult
 - b. larvae
 - c. chrysalis
 - d. egg
2. Which of the following represents the correct line of symmetry of the butterfly?



3. What three seasons of the year would you see a butterfly in Missouri?
 - a. fall, winter, spring
 - b. summer, fall, winter
 - c. spring, summer, fall
 - d. winter, spring, summer
4. What do adult butterflies eat?
 - a. ants
 - b. grass
 - c. other butterflies
 - d. nectar
5. About how long do butterflies live in the adult stage?
 - a. days
 - b. months
 - c. minutes
 - d. years

Butterflies

Student Response Sheet #2

6. Draw and label a picture diagram ordering the four stages of the metamorphosis of a butterfly.

7. Trace the path of migration for a monarch butterfly.



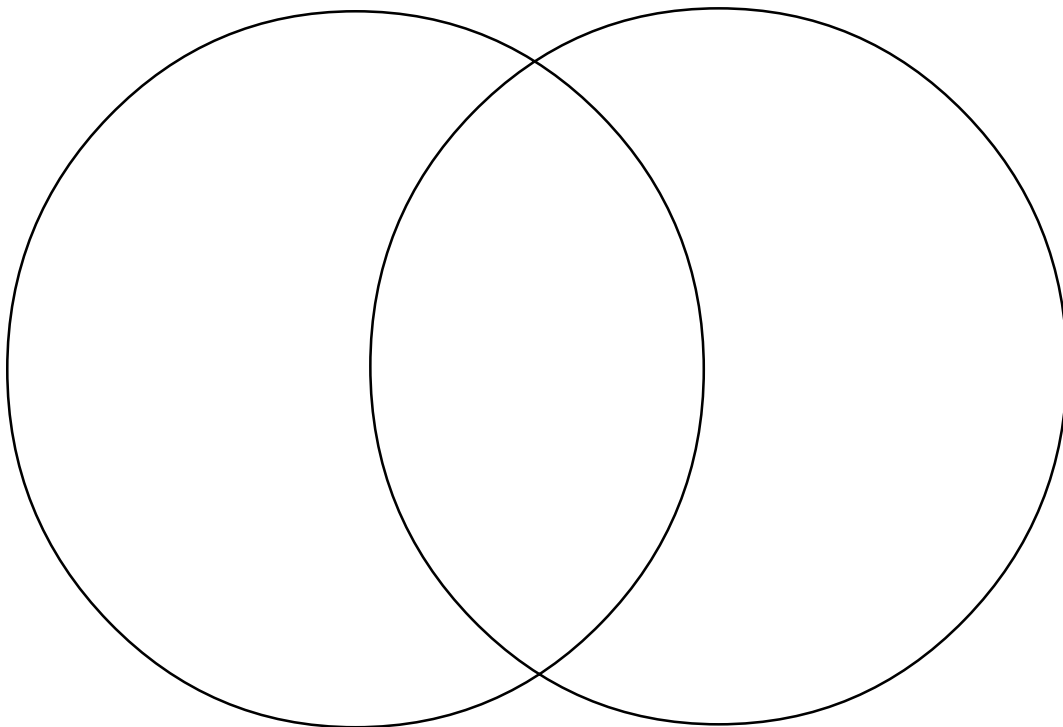
Butterflies

Student Response Sheet #3

8. Some butterflies lay thousands of eggs in either groups or singly. For the following butterflies, complete the chart to show how many butterflies would be born if there were 5 adults each laying 150 eggs.

adults	1				
eggs	150				

9. Butterflies and ants are both insects. Complete the graphic organizer to show how butterflies and ants are alike and how they are different. Be sure to label your diagram.



Butterflies: Scoring Guides

1. d

2. a

1 Point: Correct Answer

3. c

0 Points: Other

4. d

5. a

6. Correct Answer: A cycle showing:
the egg---the caterpillar----the chrysalis---the butterfly

2 Points: The response is complete and accurate. The picture, labels, and order are correct for the four stages.

1 Point: Either the pictures or labels are complete, accurate and in the proper order.

0 Points: Other

7. Correct Answer: The path is drawn from an area near Missouri to an area in Central America.

1 Point Correct answer

0 Points Other

8. Correct Answer: The chart is filled in correctly, showing 750 total butterflies for 5 adults.

2 Points: The chart is filled in correctly, showing 750 total butterflies for 5 adults.

1 Point: The chart is filled out but there is a mathematical error and the final answer is other than 750.

0 Points: Other

9. 2 Point: The Venn Diagram is completed correctly with labels and shows 3 common areas and 2 sets of corresponding differences.

1 Point: The Venn Diagram is completed correctly. It may or may not have labels and shows 2 common areas with 1 set of corresponding differences.

0 Points: Other

Performance Event.

3 Points: The paragraph gives many accurate details about a butterfly and clearly communicates its purpose.

2 Points: The paragraph gives some accurate details about a butterfly and communicates its purpose. It may be difficult to understand at one or two parts.

1 Point: The paragraph may or may not contain accurate details about a butterfly but it is difficult to understand.

0 Points: Other