

**Butterfly Brigade****Lesson No. 2**

<b>TOPIC</b>	<b>Butterfly Problem</b>	<b>TIME ESTIMATE</b>	90 minutes
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**OBJECTIVES**

- *Students will be able to develop a method for conducting a survey to determine the biodiversity of a butterfly community.*
- *Students will be able to incorporate methods for collecting accurate and reliable data*

**MATERIALS & RESOURCES**

- *Chalkboard or overhead projector*
- *Butterfly Brigade worksheet (Worksheet 2)*

**LESSON DESCRIPTION & ACTIVITIES**

<b>Steps</b>	<b>No. of Minutes</b>	<b>ACTIVITIES</b>
Day 1 1	10	<ul style="list-style-type: none"> <li>• Pass out the Butterfly Brigade worksheet (Worksheet 2) and introduce the problem statement</li> <li>• Allow time for students to work in small groups to complete the “What do you know?” &amp; “What do you need to know sections?”</li> </ul>
2	15	<ul style="list-style-type: none"> <li>• Discuss student responses to the “know/need to know” sections</li> <li>• Allow time for teams to discuss the remaining questions on the worksheet</li> </ul>
3	10	<ul style="list-style-type: none"> <li>• Facilitate a group discussion by allowing groups to share their ideas for completing the task and recording responses on the chalkboard or other display (overhead projector, SmartBoard, etc.)</li> </ul>
4	10	<ul style="list-style-type: none"> <li>• Allow time for the student teams to discuss ideas for conducting a butterfly survey and have them record their ideas on the back of the worksheet</li> </ul>
Day 2 1	5	<ul style="list-style-type: none"> <li>• Review the problem statement and the ideas discussed on Day 1</li> </ul>
2	20	<ul style="list-style-type: none"> <li>• Facilitate a group discussion to discuss methods for conducting a butterfly survey and collecting accurate, reliable data</li> <li>• Record their ideas on the chalkboard or other display to create a survey method</li> </ul>
3	5	<ul style="list-style-type: none"> <li>• Discuss the final survey and questions students may have</li> </ul>



## Worksheet 2: Butterfly Problem

Team Members:

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*The local board of the US Fish and Wildlife Service wants to increase the biodiversity of the butterfly population within Chautauqua Wildlife Refuge. Your task, as refuge manager, is to recommend a strategy to increase the diversity of the butterfly populations at this site.*

What do you know?	What do you need to know?

What will your team need to do to complete this task?

What materials will your team need to complete this task?

*Use this back of this page to record ideas that are discussed in class.*