

TOPIC	Analysis & Research	TIME ESTIMATE	90 minutes
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OBJECTIVES	
<ul style="list-style-type: none"> • <i>Students will be able to analyze the collected data to determine the diversity of the butterfly community.</i> • <i>Students will be able to identify areas of concern regarding the butterfly community.</i> • <i>Students will be able to recommend a strategy to improve butterfly diversity.</i> 	

MATERIALS & RESOURCES	
<ul style="list-style-type: none"> • <i>Copies of the completed field reporting forms for each team</i> • <i>Copies of blank field reporting forms for each team</i> • <i>Worksheet 3 – One copy per team</i> 	

LESSON DESCRIPTION & ACTIVITIES		
Steps	No. of Minutes	ACTIVITIES
1	25	<ul style="list-style-type: none"> • Provide copies of the completed data sheets for each student team and a blank copy • Allow time for students to compile the data and complete the worksheet to analyze the data to determine the diversity of the butterfly community and identify areas of concern
2	40	<ul style="list-style-type: none"> • Allow time for students to compile the data and complete the worksheet to analyze the data to determine the diversity of the butterfly community and identify areas of concern • Students may need to use Internet sites and printed resources to help them complete the worksheet
3	25	<ul style="list-style-type: none"> • Discuss the student responses to the analysis questions



Data Analysis Part 1

Team Members: _____

Directions: Compile the collected data and record the information on a new data sheet. Use the compiled data to answer the questions.

1. Which three butterfly species were most common?
2. Which three butterfly species were least common?
3. Which butterfly species listed on the data form were not observed at all?
4. How does the data compare between the teams at the same location, i.e. 1A vs 2A?
5. How does the data compare between the teams at the different locations, i.e. 1A, 1B, 1C?
6. What are some possible reasons for differences in the data sets?
7. Is there data that does not seem to fit with the other collected data?
8. What are some reasons for the unexpected data?