NatureMapping Program 1st Grade Butterfly Project

Modules	Life Sciences	Math	Technology
1. Scientific question	Hypothesis/Prediction: There are native butterflies and moths in Waterville		
What are the native	Typothesis/Tredetion. There are native outermes and motils in water the		
butterflies and moths in			
Waterville and farm			
fields?			
(descriptive study)			
2. Project Design	Systems: Learn what a	Measure the length of	Use Internet to find
(Identify a Setting	butterfly looks like and	time it takes for a	butterflies
within a System and	the different stages of its	chrysalis (butterfly)	
Identify variables of	life	cocoon (moth) to grow	Publish results on the
Interest)	Learn how to identify	before it becomes a	website and submit data
What you are going to	different butterflies	butterfly (Painted	to the NatureMapping
do?	Learn where to find	lady). Monitor what	Program
	butterflies and caterpillars	the most common	
	(Karen) in Waterville	species is observed.	
	What plants do butterflies		
	use (Karen)		
3. Methods (Collect	1. Obtain a list of species	Develop a poster	Digital pictures of
Data)	that would be expected to	where students can add	butterflies will be taken.
How you are going to	live in Waterville, along	their sightings. Make	
do it?	with their pictures and	columns of different	Digital pictures of the
	life history information.	plants (tree, busn,	plants – 5 grade
	2. Students will collect	flower, puddie/water)	
	data from nome and	where students can put	
	around the school yard	stickles under the	
	3. Capture dutternies and	appropriate column.	
	learn about at least 4	Collect data weekly	
	species	Collect data weekiy	
4 Data Analysis -	We know the different	Record temperature of	
Results	between a butterfly and	day when butterflies	
What did the data tell	other insects because	are seen and not seen.	
vou?			
	We find butterflies most	Time of day and	
	of the time (where?)	temperature is	
	Most are found when	important.	
	temp is 70 degrees or	We see more	
	higher	than any other	
		butterfly	
5. Discussion (Use	Why might this occur?	Why do they think	
Evidence to Support		butterflies are found	
an Explanation) Why		when it is sunny and	
do you think you got the		warm	
results that you did?			

NatureMapping Program 1st Grade Butterfly Project

Modules	Reading/Writing	Art	Social Studies
1. Scientific question What are the native butterflies and moths in Waterville and farm fields (descriptive study)	Hypothesis/Prediction: T	here are native butterflies a	nd moths in Waterville
2 Project Design (Identify Setting within a System and Identify variables of Interest) What you are going to do?	Students will learn new science related vocabulary	Learn about the symmetry of the body colors	Culture - Caterpillars eat plants that we like in our gardens. We have to share our gardens if we want to see butterflies.
3. Methods (Collect Data) How you are going to do it?	Learn how to read diagrams – body parts Learn to gather information and write what they learn	Students draw their butterflies and label the parts. Use the butterflies that die in the classroom or are found dead around homes, etc. to learn about parts – identify the differences – size, color, shape, patterns	
4. Data Analysis - Results What did the data tell you?		Based on the different coloration and parts, there are different butterflies in Waterville.	
5. Discussion (Use Evidence to Support an Explanation) Why do you think you got the results that you did?		Future. More drawings for the mural	Introduced species