Name: ___



Important Note: All items with an asterisk (*) are REQUIRED!

C. Concepts Layer	4 Points Each	Maximum 20 Points

<u>Objective</u>: To be able to determine the watershed of a body of water and the features of that body of water.

_____* Listen and take notes on watersheds – or look it up and take notes.

*Choose 1:

_____ Use the print topography maps to look up Spruce Creek and make observations of the creek's characteristics. Find out which way it flows and into which larger body of water. Be able to explain how you know this.

_____ Use the program Google Earth to look up Spruce Creek and make observations of the creek's characteristics. Find out which way it flows and into which larger body of water. Be able to explain how you know this.

<u>Objective</u>: To be able to identify and explain factors that cause the movement of materials in a creek.

*Listen and take notes or look up all of the following and take notes. Be able to explain these in a written or oral quiz:

____ Erosion

____ Deposition

- ____ Sediment
- ____ Velocity

____ Discharge

____Meander

<u>Objective</u>: To observe the characteristics of Spruce Creek, including locations of deposition and erosion.

_____*Write and/or draw 10 or more observations at Spruce Creek. At least half (5) of the observations must be related to deposition or erosion.

____ Watch the video on Streams and Rivers from the Wild Classroom. (See link on Mrs. Schoeneck's teacher page!) Tell me what you learned from it about the shape of rivers and streams.

B. Investigation Layer	Groups Choose 1	Maximum 24 Points		
Objective: To design and present an investigation related erosion and/or deposition at Spruce Creek				
* <u>Choose 1</u> :				
Design an investigation question at Spre	uce Creek related to erosion	l		
Design an investigation question at Spre	uce Creek related to deposit	ion		
Design an investigation question at Spre	uce Creek related to erosion	AND deposition		
*Question				
<pre> *Variables/Controls</pre>				
*Procedure				
*Data				
*Conclusion				
*2 Further Questions				

<u>A.</u>	Critical Thinking	Choose 1	Maximum 8 Points

<u>Objective</u>: To analyze a real-world topic related to erosion and deposition.

Select a question below and read one of the articles available in the classroom on that topic. Get together with others that read the same article (limit 4 in a group) and use the whiteboard to report out the main points of the article and your opinion on the topic question below.

*<u>Choose 1</u>:

How have this fall's hurricanes affected beach areas?

How are dams and levees making the flooding problems in New Orleans worse?

How is deposition a good thing in the Grand Canyon?

____ Whiteboard report out

____Opinion, backed up with reasons