

***Whatzzzzup-Stream? Water Goes with the Flow:***

To find the reading segment, go to the Seminole County Water Atlas Website and choose Library > Education > Type in "Whatzzzzup-stream?" and Select it.

**Reading Skills Practice:**

1. This article includes the following statement describing how water is organized into streams and rivers: "It's kind of like a tree lying on its side with many branches attached to a main trunk." This comparison is a
  - a. Metaphor.
  - b. Simile.
  - c. Personification.
  - d. Alliteration.
  
2. Based on your reading of the article, consider the relationship between the words "watershed" and "drainage basin." Which of the following pairs of words has the same relationship?
  - a. "First-order streams" and "Fourth-order streams"
  - b. "Major River Basins" and "Catalog Units"
  - c. "Hydrologist" and "Scientist who studies water movement"
  - d. "Fishing Waders" and "SCUBA gear"
  
3. According to the article, which of the following is the smallest stream that has at least four tributaries (feeder streams)?
  - a. First-order streams
  - b. Second-order streams
  - c. Third-order streams
  - d. Fourth-order streams
  
4. The article includes the following statement: "Like nesting dolls, small watersheds are part of larger watersheds, which in turn are part of even larger watersheds." When writing, authors make certain assumptions about their readers' prior knowledge. Which of the following assumptions does the author make about the reader's prior knowledge with regard to this statement?
  - a. That the reader understands the concept of "nesting dolls" prior to reading the article.
  - b. That the reader understands the meaning of the word "watershed" prior to reading the article.
  - c. That the reader understands the meaning of the word "simile" prior to reading the article.
  - d. That the reader understands the concept of a "tongue-twister" prior to reading the article.

## **Watersheds & Weather *Handout***

*Students practice their skills while learning about watersheds, water level and rainfall.*

*Water Atlas Curriculum Lesson 42*

### **Writing Skills Practice:**

1. Water flows from smaller streams towards larger streams, rivers, and oceans. Imagine that you are a single drop of water in this flow. Write to explain three things you might experience as you progress into larger and larger bodies of water.
2. Some professions that deal with water include studying the flow of streams, teaching about the environment, creating maps of waterways, and controlling erosion problems. Think about which of these careers would be most appropriate for you. Write to persuade your guidance counselor that this career choice is right for you.
3. Most Americans live within ten miles of a polluted body of water. Think about a time you saw pollution on water or land. Write to explain the form of pollution you saw and how you felt when you saw it.
4. When pollution enters the environment, rain carries it to the nearest ditch or stormwater drain, where it flows downstream into a larger body of water. Imagine that you see a neighbor pouring used car oil into a ditch or storm drain. Write to persuade him or her that these actions are damaging a much larger area.

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**Math Skills Practice:**

The Seminole Water Atlas Website houses data about watersheds and the water bodies that make them up. Some kinds of information are collected for each water body. Data about water level, for example, is collected at several spots along the St. Johns River. The water level data in the table below was collected from the middle St. Johns, in the Lake Monroe Watershed. Rainfall information, on the other hand, is not collected at each water body. Instead, the data points are watershed-wide values (each an average from several rain gauges in the watershed).

**Lake Monroe Watershed / Middle St. Johns River Monthly Averages for Water Level and Rainfall**

<i>Date</i>	<i>Average Feet above Sea Level (Water Level)</i>	<i>Average Rainfall in Inches</i>
Aug 2003	5.26	0.01
Sep 2003	6.02	0.16
Oct 2003	5.49	0.59
Nov 2003	3.73	0.07
Dec 2003	1.94	0.01
Jan 2004	1.22	0.04
Feb 2004	1.69	0.1
Mar 2004	1.89	0.03
Apr 2004	0.71	0.05
May 2004	0.37	0.03

1. Based on the data in the table, what was the total rainfall from August 2003 – May 2004 expressed in centimeters? [1 inch = 2.54 cm]
  1. 1.09 cm
  2. 2.77 cm
  3. 28.32 cm
  4. 71.93 cm
  
2. Based on the data in the table, what was the average water level from September 2003 through December 2003?
  1. 0.11 feet above sea level
  2. 0.21 feet above sea level
  3. 2.83 feet above sea level
  4. 4.29 feet above sea level

# Seminole County Water Atlas Learning Kit

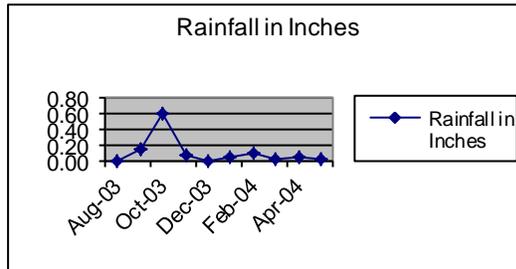
## Watersheds & Weather Handout

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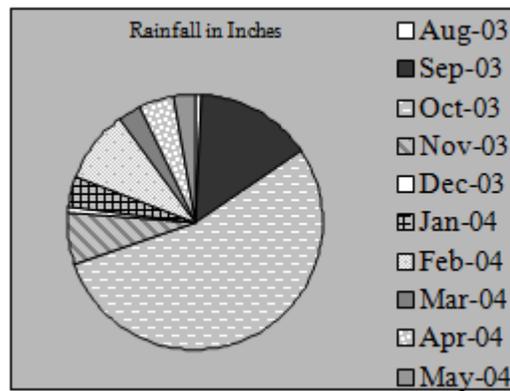
Water Atlas Curriculum Lesson 42

3. Which of the following four graphs most clearly illustrates which month had the SECOND highest amount of rainfall?

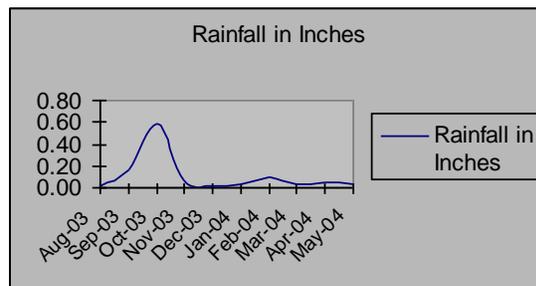
1.



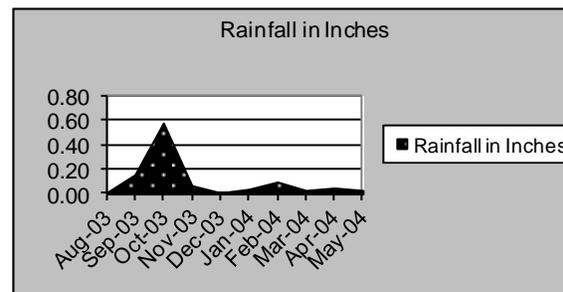
2.



3.



4.



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4. On the grids below, create two graphs, one showing the average monthly water levels and the other showing the average monthly rainfall. Be sure to title your graphs, use appropriate scales, and label your axes.

Think  
Solve  
Explain



