Connect with Your Creeks

Part 1:

1) What are some different ways / research methods that you could use to determine the health of a waterway?

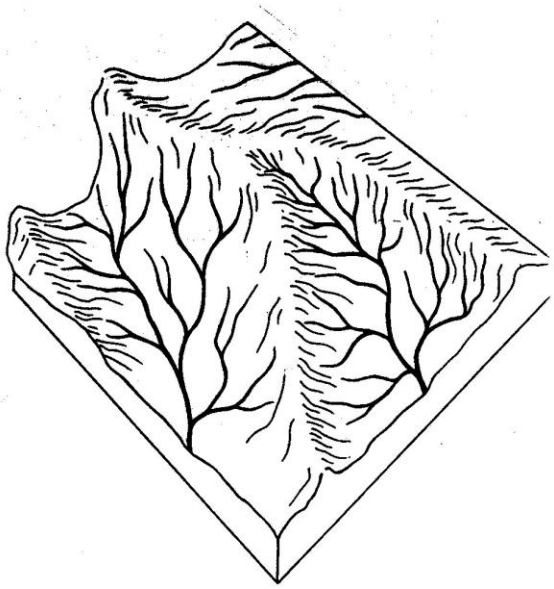
2) While involved with Creek Connections, what research topics pertaining to waterways might you be interested in pursuing individually or as a class?

3) What are you most excited to learn about or experience while involved in Creek Connections this year?

4) What is the Creek Connections website address?

Part 2:

5) What is a *watershed*?



6) What creates the boundaries of a watershed?

With dashed lines - - - -, draw the boundaries on the watershed diagram to the right.

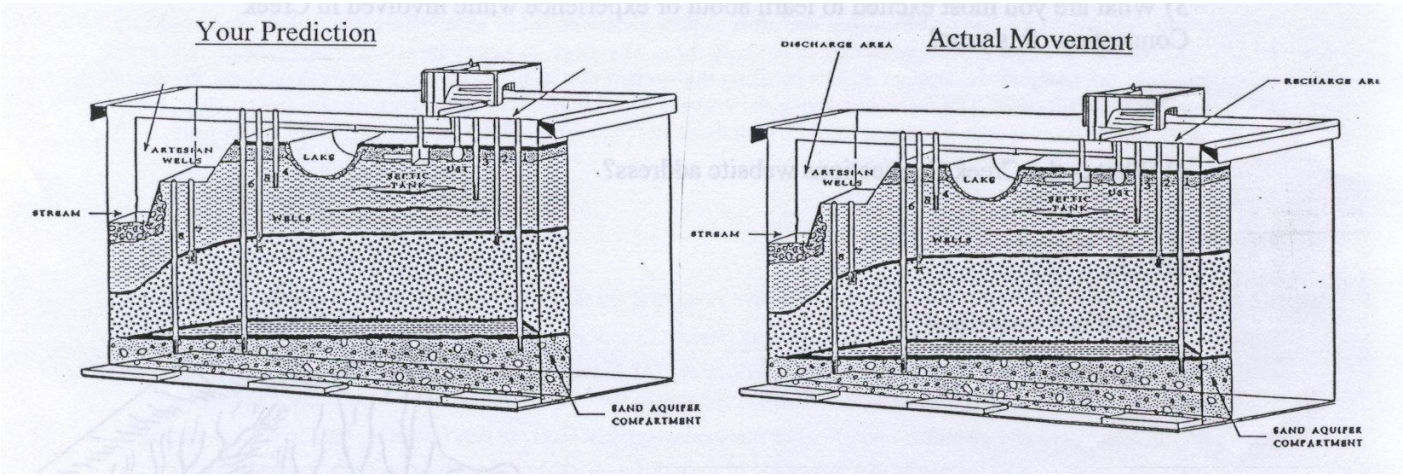
7) Indicate with a circle the lowest point/s/ in this watershed where the water will drain.

8) How many major watersheds are there in Pennsylvania? Which one do you live in?

9) What is the name of the waterway that your class will be studying this year?

10) Do you think this waterway is healthy or unhealthy? Why? Hopefully through your scientific investigations this year, you will learn more about the health of this waterway and see if your prediction is correct.

11) **Groundwater movement**: On the illustration to the left, draw the path that you think the dye will flow through the simulator (which represents a typical hillside). Note where the dye starts, your prediction for where it will end up, and the path it travels in between. On the right, draw what really happened? Did you predict correctly?



12) What allows water to flow through underground soil and rock layers?

13) If you buried a leaking barrel of toxic waste 10 feet down into a hillside, why might your pollution cause water problems for a farmers well ¼ mile away and kill some trout in a stream ½ mile away?