Stormwater Science

Part 3.1

Follow this worksheet as you watch the BEMP Stormwater Science Part 3.1 video. This video will go over where all the water goes after a storm event, the difference between permeable and impermeable surfaces and the problems of flash flood events.

1. Do you remember what is a **tributary**? Please define it in your own words.
   Note: You can add examples of tributaries of the Rio Grande to help you define this concept.

2. Do you remember what is **E. coli**? Please define it in your own words.
   Note: You can draw what E. coli looks like to help you define this concept.

3. What is a **bioindicator**? Please define it in your own words.

4. Do you think the river water will have more, less or the same amount of pollution after a storm event?

5. Which community do you predict will have the most polluted water? Why?

6. Name at least one example for a **permeable** and **impermeable** type of soil (or material).

7. What do you think will happen to the pollutants that are on a **permeable** soil?
   a. The pollutants will sit on the surface
   b. The pollutants will percolate (filter) through
   c. The pollutants will slide down hill
   d. Something else: _____

8. What do you think will happen to the pollutants that are on a **impermeable** urban surface?
   a. The pollutants will sit on the surface
   b. The pollutants will percolate (filter) through
   c. The pollutants will slide down hill
   d. Something else: _____

9. Do you know which phenomenon can occur when we get a lot of precipitation in a short period of time?
   Hint: Look at the symbol in the video.

10. What are the main conditions that can lead to a **flash flood** event?
    a. Heavy rain and improper drainage
    b. Improper drainage
    c. Other conditions
    d. Heavy rain