

# TRWD Stream Trailer Virtual Simulation

Name:

Teacher:

Date:

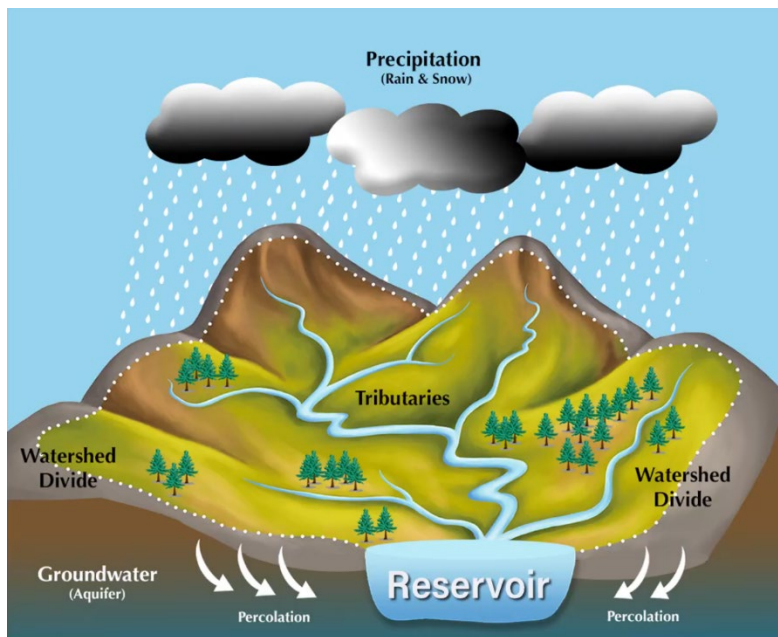
**Instructions:** Watch the TRWD “Exploring Watersheds” video and answer the questions. When the video indicates, pause to think and record your answers. Please note that some questions may not have a pause cue in the video.

1. What are the three components of a river system? (0:27)

- 1.
- 2.
- 3.

2. What is a watershed?

First, record your best guess here. (There are no wrong answers!) (0:55)



Think about the graphic to the left and your hand model of a watershed. How would you define a watershed now? (1:50)

Credit: [https://www.cwp.org/watershed101/cwp\\_watershed\\_04-30-19-2/](https://www.cwp.org/watershed101/cwp_watershed_04-30-19-2/)

3. Texas only has one natural lake (Caddo Lake) and the rest are man-made lakes called reservoirs. Why does Texas have so many reservoirs? (2:38)



4. What is erosion? (3:40)
5. How does soil become sediment? (4:10)
6. What is the component of a river system that is usually green and grows in the soil? (4:51)
7. What part of the vegetation (plants) grows underground? (5:19)
8. How do the roots of the plant help to prevent erosion? (5:40)
9. Before watching the simulation, make some predictions:

	Prediction (6:27)	Observation (7:39)
Will the stream get wider or narrower?		
Will the stream get shallower or deeper?		

10. Why did the house fall into the stream? Explain two reasons. (8:20)
  - 1.
  - 2.
11. As the water carries sediment into the downstream reservoir, it slows down and deposition occurs. What happens when too much sediment gets deposited in the reservoir? (10:11)
12. How do you think this simulation is different from streams in real life? How is it similar? (after video)

Differences	Similarities