

Wondrous Watersheds

Trash on the street travels through a watershed when it rains.

List the order of images A - E for the journey of a piece of trash.

We will be talking and thinking about watersheds on our trip to the LA River.

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Click on the links below to READ (not skim for answers) and learn about watersheds.

Answer all questions using complete sentences!

1. In your own words, define watershed and provide an example.

Definition: *A watershed is*

Example:

2. Watersheds consist of:

A. *Tributaries*

4. How do watersheds affect the water quality in a river?

5. Predict: How do humans impact watersheds? Humans impact their watershed by...

1.

2.

Task #2: Watch this video once all the way through: vimeo.com/14030972

Answer the questions below and re-watch the video, pausing and rewinding as necessary.

6. Expand on your previous definition of a watershed using what you learned in this video.

Definition: *A watershed is*

7. Describe 3 cause/effect relationships of watersheds and the people who live in them by filling in the chart below:

| Cause: | Effect: |
|--|---|
| Upstream neighbors use fertilizer on their lawn. | Water quality for downstream neighbors worsens. |
| | |
| | |
| | |

8. What are 3 ways we can hold rainwater it falls?

A. _____

B. _____

C. _____

9. Most rainwater doesn't soak into the ground in an urban (city) watershed. Why not? Hint: Think about places where water can soak into the ground.

Task #3: Use the link and map below to help you answer questions 10-15.
 Link here: goo.gl/p1GWyj

10. Label the Rose Bowl Stadium, Los Angeles Airport (LAX), Downtown LA, and Long Beach.

11. Place dots at the end of each tributary and connect them to find the boundaries of the LA River watershed on the map below.

We live near two bodies of water. Find: Pacific Ocean & LA River

12. If someone pours paint in the street at Location A, which body of water will it flow to?

Color the path

13. If someone pours paint in the street at Location B, which body of water will it flow to?

Color the path

14. If someone dumps trash on the street next to the Rose Bowl Stadium, which parts of the watershed will it travel through when it rains?

Color the path a different color

A. _____

B. _____

C. _____



15. Imagine you are a molecule of water that has just fallen in the Pacoima Wash. Trace and describe your journey to Long Beach on the map.

When I fall in the Pacoima Wash, I travel downstream to _____

and end my journey in Long Beach next to the Queen Mary ship.

16. Help! We live in a city that experiences drought!

In 2016, 100 billion gallons of rainwater were flushed to the ocean without being filtered or used by the city. During a storm, rainwater and polluted runoff from streets go through storm drains, to the LA River, and then to the ocean. We use very little rainwater for drinking or irrigation.

Streets > **Storm Drains** > _____ > **Ocean**

You can read up on the topic here:

latimes.com/local/california/la-me-storm-water-capture-20160311-story.html

Propose a Solution: Brainstorm how Los Angeles can reuse rainwater and runoff.

