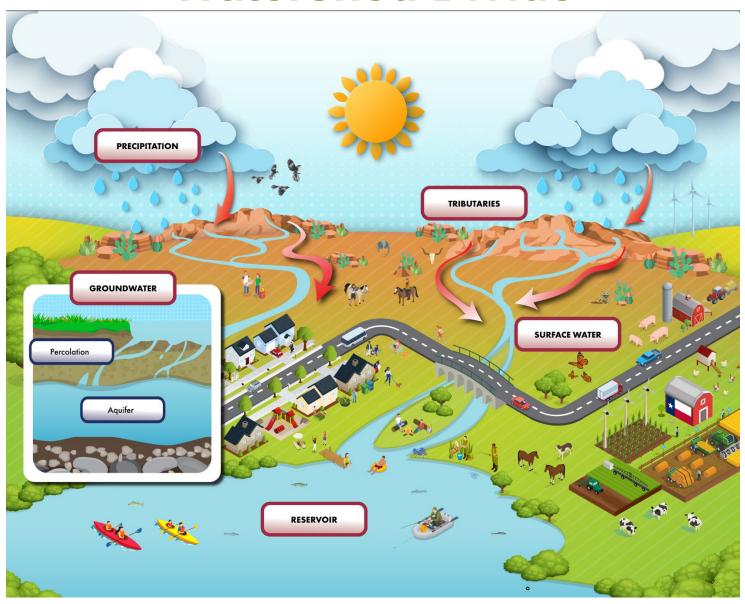


HANDOUT

Watershed Divide



TEKS: 112.19.7.B | 112.19.8.B-C | 112.32.C.7.A-C

Watershed Divide: An In-Depth Look

A watershed divide, also known as a drainage divide, is a geographically significant feature that demarcates the boundaries between different drainage basins. It serves as a topographical separation between distinct areas where water flows into separate river systems. This division is dependent upon the natural landscape, including hills, mountains, and ridges.



Precipitation & Tributaries

Precipitation, in the form of rain or snow, is a primary source of water that replenishes the earth's water cycle. When precipitation falls upon the land, it follows gravity-driven pathways to the lowest points or lowest bodies of water. These pathways are formed by a network of smaller rivers and streams called tributaries, which merge to form larger rivers. There rivers discharge into major bodies of water such as lakes, seas, or oceans.

Surface Water, Percolation, & Groundwater

The surface water within a watershed comprises the visible water bodies like lakes, rivers, and wetlands. In addition to surface water, a significant portion of the water cycle occurs underground. When precipitation infiltrates the soil, it undergoes percolation – the process by which water moves through soil and porous rock layers. Groundwater is an essential component of the water cycle, sustaining springs, wells, and streams. Depending on the depth and underlying geology, groundwater can be accessed through wells drilled into aquifers.



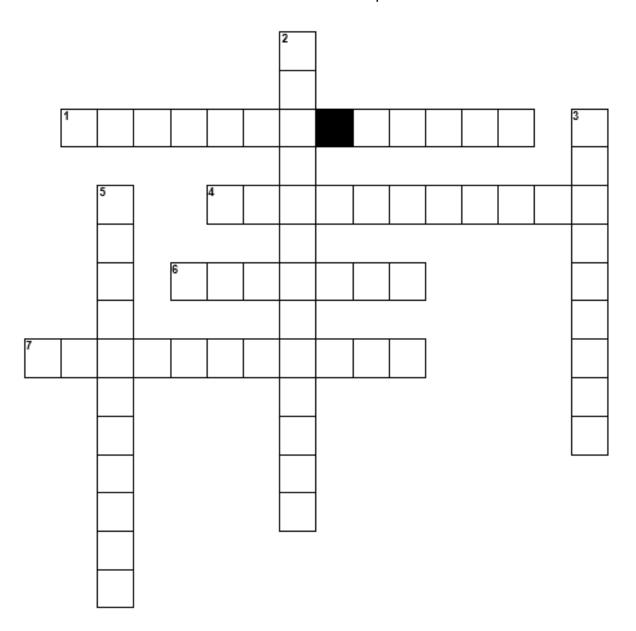


Aquifer & Reservoirs

The infiltrated water from percolation accumulates in underground, permeable layers called aquifers. Aquifers function as natural underground reservoirs, holding vast amounts of groundwater. Additionally, humans may construct reservoirs to store water for various purposes, including drinking water supply, irrigation, and hydropower generation. Reservoirs serve as repositories of water, which can be released when needed or controlled to meet specific requirements.

Crossword Puzzle

Find the answers to this puzzle at



ACROSS

- 1. The water that you can see, like a lake or a river
- 4. The waters that flow down from the hills and mountains into the rivers
- Tiny spaces in the soil, rocks, and underground layers of sand and gravel
- 7. Another type of water in a watershed hidden beneath the surface

DOWN

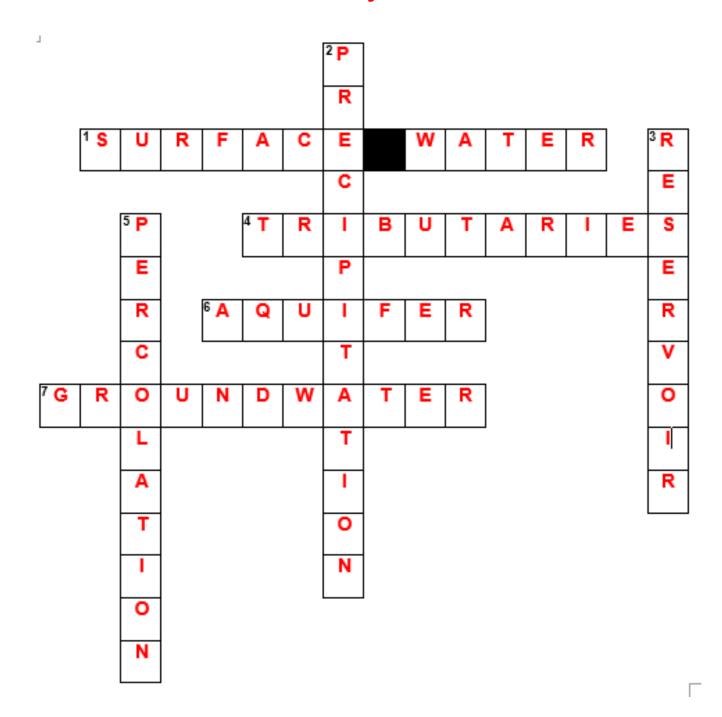
- 2. The water that falls to the ground from the sky
- 3. Man made lakes that store water for drinking or to generate electricity
- 5. When water soaks into the ground

Watershed Cloze Test

Use the Watershed Poster and its labels to help fill out the missing words below. Find the answer to this puzzle on

Α	_ is like a line on a map that separates different
areas where water flows. W	hen it rains or snows, the water falls to the
ground, and this is called	The water that falls on
	goes into one set of rivers,
	r that falls on the other side of the divide goes
nto a different set of rivers, la	akes, and creeks.
The waters that flow down fr	om the hills and mountains into the rivers are
called	These join to
	ntually flow into the ocean or a big lake. This
whole system of rivers,	lakes, and creeks is known as a
Now, let's talk about the diffe	erent types of water in a
	is the water that you can see, similar
to a lake or a river. S	Sometimes, people build big lakes called
to s	store water for drinking or to generate electricity.
	is another type of water in a
, but it	is hidden beneath the surface. When it rains,
some of the water so	oaks into the ground. This is called
The	water goes into tiny spaces in the soil, rocks,
	layers of sand and gravel called
and even underground	layers of sand and gravel called is from these that

Crossword Puzzle Answer Key



Watershed Cloze Test Answer Key

A <u>watershed divide</u> is like a line on a map that separates different areas where water flows. When it rains or snows, the water falls to the ground, and this is called <u>precipitation</u>. The water that falls on one side of the <u>watershed divide</u> goes into one set of rivers, lakes, and creeks. The water that falls on the other side of the divide goes into a different set of rivers, lakes, and creeks.

The waters that flow down from the hills and mountains into the rivers are called <u>tributaries</u>. These <u>tributaries</u> join to create bigger rivers that eventually flow into the ocean or a big lake. This whole system of rivers, lakes, and creeks is known as a <u>watershed</u>.

Now, let's talk about the different types of water in a <u>watershed</u>. <u>Surface</u> <u>water</u> is the water that you can see, like a lake or a river. Sometimes, people build big lakes called <u>reservoirs</u> to store water for drinking or to generate electricity.

<u>Groundwater</u> is another type of water in a <u>watershed</u>, but it is hidden beneath the surface. When it rains, some of the water soaks into the ground. This is called <u>percolation</u>. The water goes into tiny spaces in the soil, rocks, and even underground layers of sand and gravel called <u>aquifers</u>. It is from these <u>aquifers</u> that people can drill wells to get water for drinking or other purposes.