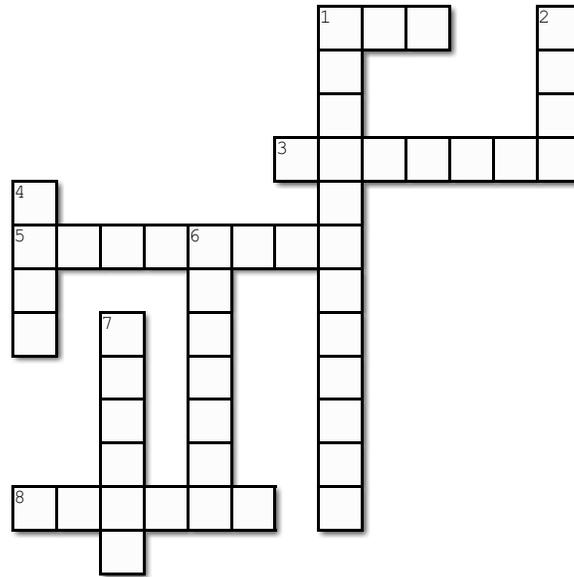


Water Pipes, Then and Now

Complete the crossword below from clues on the back



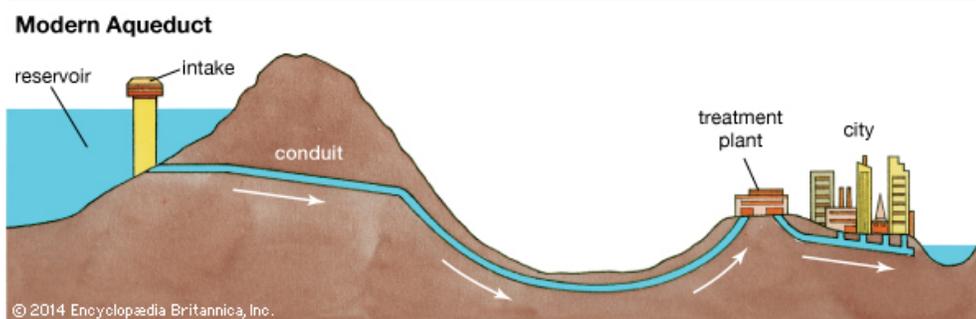
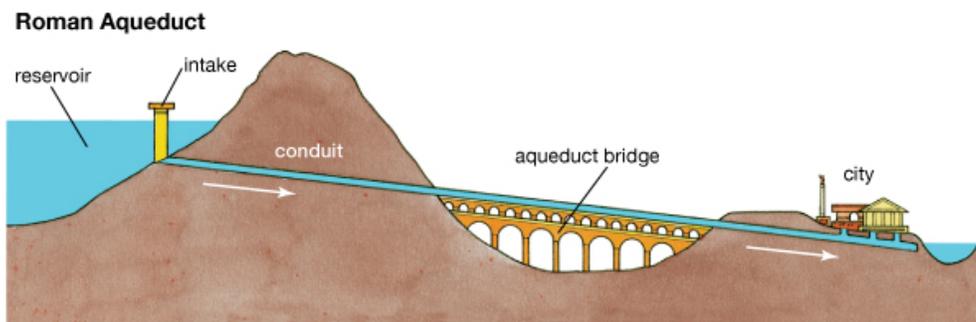
Cast Wooden Lead Aquaduct PVC Boston Polyethylene Ductile Typhoid

Across

1. This material was invented in 1838.
3. Untreated water can transmit this disease.
5. Romans used this to deliver water.
8. In late 1700s, America used trees to make this type of water pipe.

Down

1. America started installing this type of water service material in 1955.
2. The Latin for this word is plumbum.
4. France was the first county to use this type of iron pipe.
6. This type of iron pipe was created in 1948.
7. Americas first water treatment plant was built here in 1652.





Example of pipe installation in early 1900's



Steel pipe circa 1800



-Mayan water channels date back to 800 BC.

-Harappa, a Pakistan city has some of the oldest water and wastewater systems, dating back to 3000 BC. By 2500 BC almost all houses had drinking water access and flushing toilets.

-The first Roman [aqueduct](#) (image on front) was built in 312 BC to supply a water fountain at the city's cattle market, carrying water over 10 miles.

-Latin for lead is [plumbum](#)

-The oldest [cast](#) iron water pipe was installed in 1623 in France. That pipe is still in use today.

-America's first municipal water treatment plant was in [Boston](#), built 1652. Sioux Falls first water treatment plant was built in 1884.

-Logs were used for water distribution in England close to 500 years ago. US cities began using hollowed logs and [wooden](#) pipe in the late 1700s to early 1800's.

-Cement-mortar lined cast iron pipe became a standard in 1939, in all American iron pipes.

-[Ductile](#) iron pipe was developed in 1948 and made from cast iron.

-PE pipe, or [polyethylene](#), was invented in 1953

-[PVC](#) pipe, or polyvinyl chloride was invented 1838. America started installation in 1955, for residential water pipe usage.

-Galvanized service pipe was popular before the 1960's. It was used as an alternative to lead service pipe.

-Untreated water can transmit diseases such as cholera and [typhoid](#).