

# KINGSTON

WATER SUPPLY SYSTEM

Worksheet 1 (1/2)

NAME: \_\_\_\_\_

1. Draw a schematic diagram of the water supply system for the town of Kingston, showing the main components and their interconnections.

2. Identify the main components of the water supply system.

1. **Water Treatment Plant**  
The water treatment plant is the primary source of clean water for the town. It receives water from the reservoir and treats it through several stages: screening, sedimentation, filtration, and disinfection. The treated water is then pumped to the distribution network.
2. **Reservoir**  
The reservoir is a large body of water that stores water for the town. It is the source of raw water for the treatment plant. The reservoir is located at a higher elevation than the town, which allows gravity to assist in the flow of water to the treatment plant.
3. **Transmission Main**  
The transmission main is a large pipe that carries water from the reservoir to the treatment plant. It is typically made of steel or concrete and is buried underground. The transmission main is located at a higher elevation than the town, which allows gravity to assist in the flow of water to the treatment plant.
4. **Distribution Network**  
The distribution network is a system of pipes that carries water from the treatment plant to the various parts of the town. It consists of a main distribution line and several smaller distribution lines. The distribution network is located at a lower elevation than the transmission main, which allows gravity to assist in the flow of water to the town.
5. **Water Tower**  
The water tower is a structure that stores water at a high elevation. It is used to provide a constant pressure of water to the town. The water tower is located at a higher elevation than the town, which allows gravity to assist in the flow of water to the town.
6. **Water Mains**  
The water mains are the pipes that carry water from the distribution network to the individual buildings in the town. They are typically made of steel or concrete and are buried underground.



3. Explain the function of each component in the water supply system.