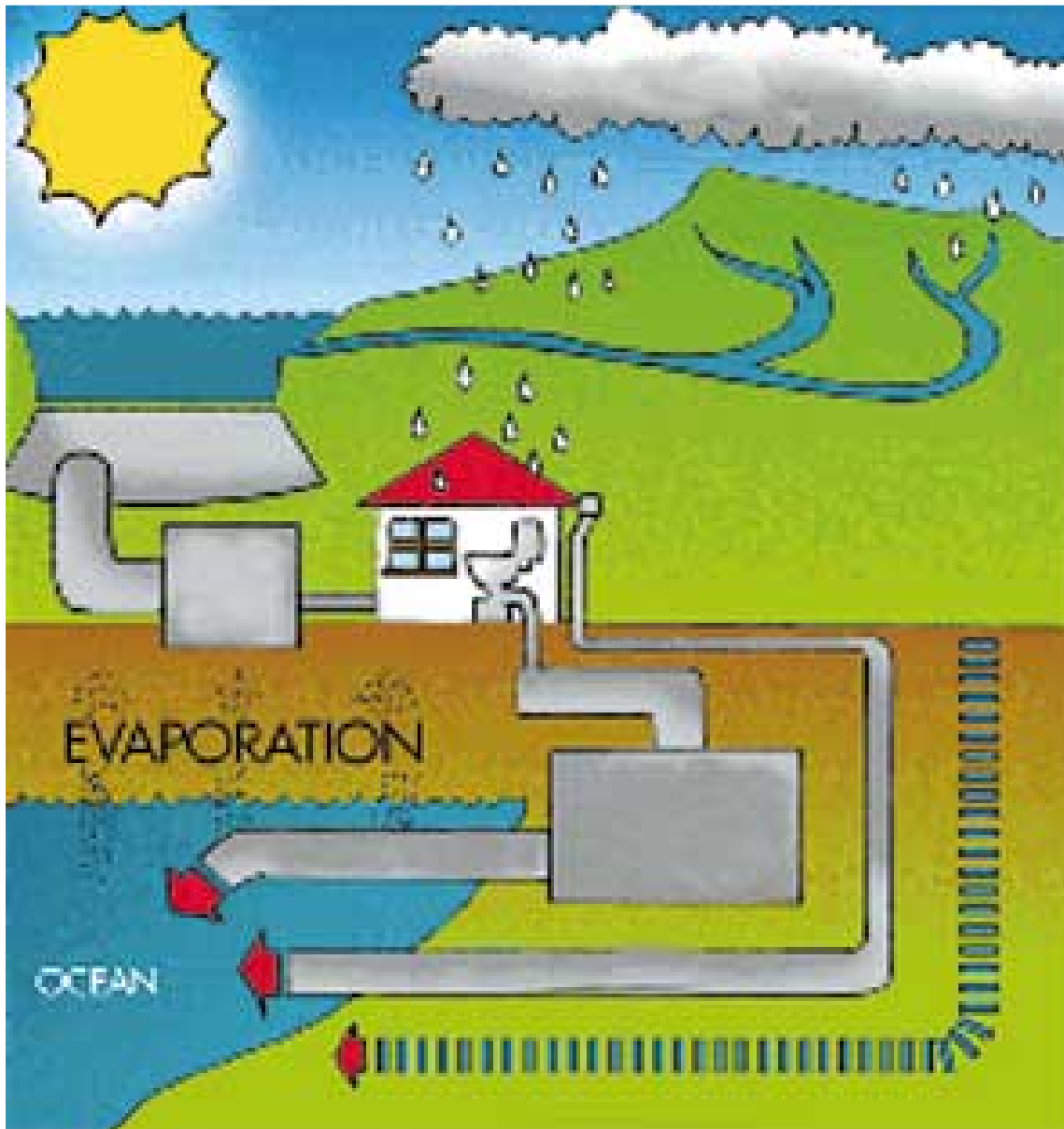


CAPTURING THE RAIN ACTIVITY TWO



The natural water cycle is interrupted by people.

People build dams and storage lakes to collect and store water. This water is carried to their homes by underground water pipes.

Once water is used and made dirty, it is removed from people's homes by the wastewater pipe system. This is sometimes called the 'sewer system'.

Wastewater is treated at wastewater treatment plants then returned to the natural water cycle.

Treated wastewater is called 'wastewater effluent'.

1. Write these words onto the correct part of the picture:

dam groundwater rain clouds storage lake stormwater wastewater effluent wastewater treatment water treatment

- Not all homes are connected to the city water and wastewater systems. Homes in the Waitakere Ranges and on the West Coast often have water tanks which collect water from the roof. Wastewater is collected and treated on the section in an underground septic tank. Re draw the picture to show how homes using tank water and septic tanks are still part of the natural water cycle.
- In some countries, people need to carry water to their homes because there are no tanks or piped water supply. If you had to carry water in buckets to your home, how many buckets would you carry each day? (clue: the average person in our city uses 164 litres of water each day and a bucket holds 9 litres). Where is the nearest safe drinking water? How far would you have to walk each day to collect water?
- Most people in Waitakere City use about 60,000 litres of water a year. How many litres would your family use?