

# Changes to Groundwater

Groundwater Recharge:

Infiltration of water into the saturated zone. Replenishes supply of groundwater.



**Example:** Precipitation, runoff



Groundwater Discharge:

Movement of groundwater out to surface waters. Lowers supply of groundwater.

**Example:** Occurs during dry periods

## Flood Protection **Techniques**

- We'll divide into 6 groups
- Each group will read about one flood protection technique
- · Each group member will present one of the following questions to the class:
  - o 1. Define/explain your flood protection technique
  - o 2. What is one benefit of your technique?
  - o 3. What is one disadvantage of your technique?
  - o 4. Interesting fact about your technique.

#### Flood Prevention Methods



- Levees
- Embankments built next to the river channel



#### Flood Prevention Methods



- Flood Barriers
- Expensive. Protect important urban areas and some can be opened and closed.



## Flood Prevention Homewood Methods



- Flood Control Channels
- · Empty concrete channels that run above or below the surface

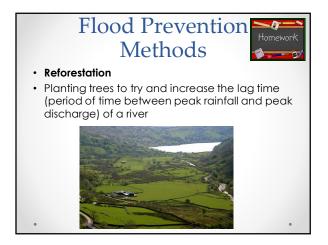


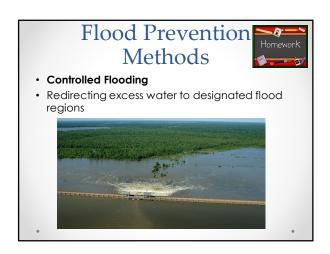
### Flood Prevention Homewor Methods

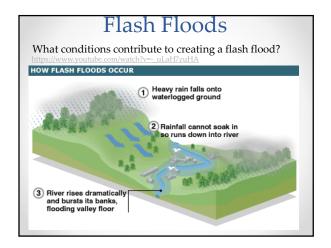


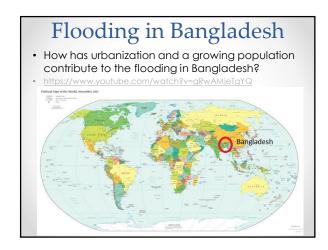
- Dams
- Regulate the river's flow so that the river never exceeds bankfull discharge











The Drowning Country

• https://www.youtube.com/watch?v=MAkz1AVZY\_Y