Tetra Winters Group 4

5 Questions

1. What is the purpose of a levee?
2. How is the surface of the levee protected?
3. What are two ways man-made levees can fail?
4. Describe how a natural levee is formed.
5. The Mississippi River levee system represents one of the largest found anywhere in the world. What is the area and distance the Mississippi River levee system is covers?

Web site reference for questions --- http://www.juliantrubin.com/encyclopedia/engineering/levee.html

The students in group four will simulate a levee.

Materials: soil, water proof rectangular container, small rocks, pebbles, sand

The students will put a ruler in the water proof container as a divider separating three-fourths of the container to represent a river and one-fourth to represent a levee. Mix the small rocks, pebbles with a little of the sand. Put the mixture on the side of the container for the river. Mix the soil with the rest of the sand, and use water to help the mixture hold its composure. Pour the sand and soil mixture into the side of the container that will represent the levee. Shape the mixture into a hill the same length of the container. The hill should be three inches tall. The water level of the river should be one inch from the bottom of the container.