

Jurupa Mountains Cultural Center
7621 Granite Hill Drive – Riverside, CA. 92509
Phone: (951) 685-5818 or Fax: (951) 685-1240
Email: info@jmcc.us or Web: www.jmcc.us



SCOUT SOIL & WATER CONSERVATION

Scout
Name: _____

Troop Number: _____ Date: _____

REQUIREMENT 1: Do the following:

A. Tell what soil is:

Tell how it is formed:

B. Describe three kinds of soil. Tell how they are different.

1. _____
Characteristics: _____

2. _____
Characteristics: _____

3. _____
Characteristics: _____

REQUIREMENT 2: Do the following:

a. Define soil erosion:

b. Tell why soil erosion is important.

Tell how it affects you.

C. Name three kinds of soil erosion, describe each.

1. _____

2. _____

3. _____

D. Take pictures of or **Draw two kinds of soil erosion.**

REQUIREMENT 3: Do the following.

a. Tell what is meant by “conservation practices.”

b. Describe the effect of three kinds of erosion-control practices.

c. Take pictures or **draw three kinds of erosion-control practices.**

1. _____



2. _____



3. _____



REQUIREMENT 4: Do the following:

a. Explain what a watershed is.

b. Outline the smallest watershed that you can find on a contour map.

c. Then outline on your map, as far as possible, the next larger watershed which also has the smallest in it.

d. Explain what a river basin is.

Tell why all people living in a river basin should be concerned about land and water use in the basin.

c. Demonstrate at least two of the following actions of water in relation to soil: **percolation, capillary action**, precipitation, evaporation, or transpiration.

d. Explain how removal of vegetation will affect the way waste runs off a watershed.

e. Tell how uses of forest, range and farmland affect usable water supply.

f. Explain how industrial use affects water supply.

REQUIREMENT 6: Do the following:

A. Tell what is meant by “water pollution.”

B. Describe common sources of water pollution, and explain the effects.

1. _____

2. _____

C. Tell what is meant by “primary water treatment,” “secondary waste treatment,” and “biochemical oxygen demand.” Match the correct phrase and definition.

_____ Involves the removal of solids from wastewater. Using screens, grinder, grit chamber where heavy items sink to bottom and are removed. The wastewater then goes to a settling tank.

_____ Wastewater is aerated by oxygen for organic decomposition of wastes. Then the wastewater goes from the settling tank to a trickling filter which passes slowly over stones or other natural materials so that biological growths can assist in breaking down material.

_____ The amount of oxygen required to decompose the organic matter present in water.

- A. Biochemical Oxygen Demand.
- B. Primary Water Treatment.
- C. Secondary Waste Treatment.

REQUIREMENT 6 (D):

Make a drawing showing the principles of complete waste treatment.

REQUIREMENT 5: Do the following:

a. Make a drawing to show the hydrologic cycle.