



Soil and Water Conservation

Merit Badge Workbook



This workbook can help you but you still need to read the merit badge pamphlet.

This Workbook can help you organize your thoughts as you prepare to meet with your merit badge counselor.

You still must satisfy your counselor that you can demonstrate each skill and have learned the information.

You should use the work space provided for each requirement to keep track of which requirements have been completed, and to make notes for discussing the item with your counselor, not for providing full and complete answers.

If a requirement says that you must take an action using words such as "discuss", "show", "tell", "explain", "demonstrate", "identify", etc, that is what you must do.

Merit Badge Counselors may not require the use of this or any similar workbooks.

No one may add or subtract from the official requirements found in Boy Scout Requirements (Pub. 33216 – SKU 637685).

The requirements were last issued or revised in 2017 • This workbook was updated in March 2018.

Scout's Name: _____ Unit: _____

Counselor's Name: _____ Counselor's Phone No.: _____

<http://www.USScouts.Org> • <http://www.MeritBadge.Org>

Please submit errors, omissions, comments or suggestions about this **workbook** to: Workbooks@USScouts.Org
Comments or suggestions for changes to the **requirements** for the **merit badge** should be sent to: Merit.Badge@Scouting.Org

1. Do the following:

a. Tell what soil is.

Tell how it is formed.

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

1.	
2.	
3.	

c. Describe the three main plant nutrients in fertile soil.

1.	
2.	
3.	

Tell how they can be put back when used up.

2. Do the following:

a. Define soil erosion.

d. Take pictures or draw two kinds of soil erosion.

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3. Do the following:

a. Tell what is meant by conservation practices.

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

1.	
2.	
3.	

- c. Explain how removal of vegetation will affect the way water runs off a watershed.

- d. Tell how uses of forest, range, and farm land affect usable water supply.

- e. Explain how industrial use affects water supply.

- 6. Do the following:

- a. Tell what is meant by water pollution.

b. Describe common sources of water pollution and explain the effects.

Water Pollution Source	Effects

c. Tell what is meant by "primary water treatment," "secondary waste treatment," and "biochemical oxygen demand."

Primary water treatment	_____ _____ _____ _____ _____ _____ _____ _____
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secondary waste treatment	
biochemical oxygen demand	

d. Make a drawing showing the principles of complete waste treatment.



