## **SOIL AND WATER CONSERVATION MERIT BADGE WORKBOOK**

This Scoutmaster Bucky Merit Badge Workbook is based off the current Scouts BSA Requirements.

Consider also using the Soil and Water Conservation merit badge class preparation page for clarification and expections when participating in a Scoutmaster Bucky merit badge opportunity (online or in-person).

https://scoutmasterbucky.com/merit-badges/soil-and-water-conservation/

Scout's Name:
REQUIREMENT 1: Do the following:
REQUIREMENT 1 A: Tell what soil is. Tell how it is formed.
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REQUIREMENT 1 B: Describe three kinds of soil. Tell how they are different.
REQUIREMENT 1 C: Name the three main plant nutrients in fertile soil. Tell how they can be put back when used up.
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**REQUIREMENT 2:** Do the following:

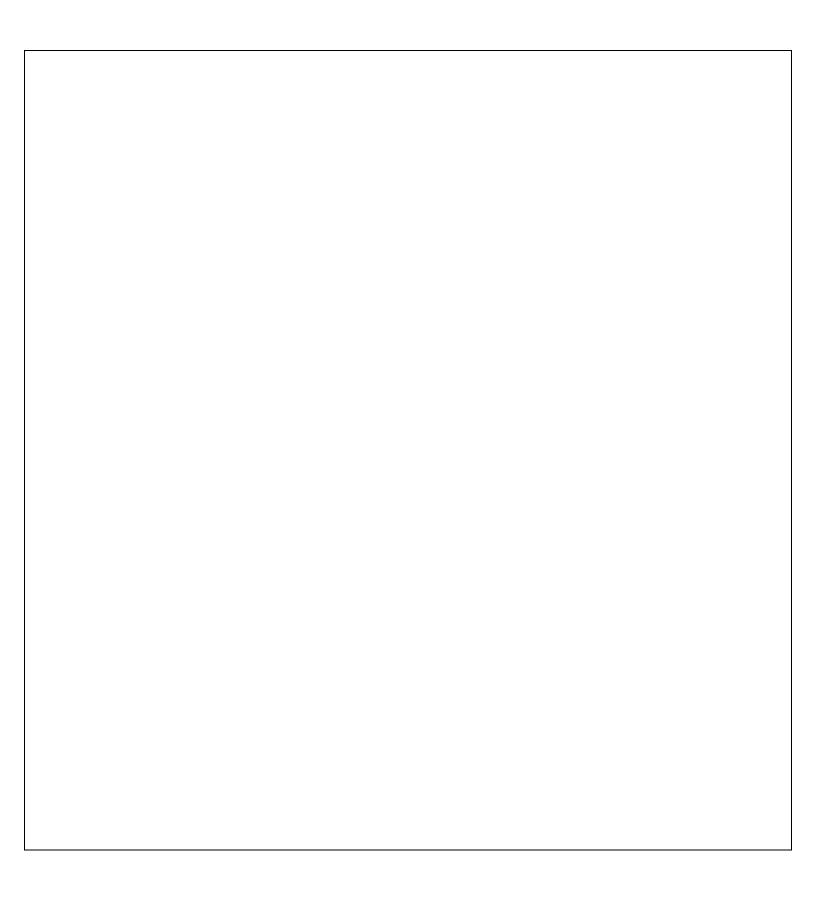
REQUIREMENT 2 A: Define soil erosion.	
REQUIREMENT 2 B: Tell why it is important. Tell how it affects you.	
RECORDINETED TELL WITH IT IS IMPORTANT. TELL HOW IT AMERICAN YOU.	
REQUIREMENT 2 C: Name three kinds of soil erosion. Describe each.	
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REQUIREMENT 3: Do the following:  REQUIREMENT 3 A: Tell what is meant by conservation practices.	<b>REQUIREMENT 2 D:</b> Take pictures or draw two kinds of soil	erosion.
REQUIREMENT 3 A: Tell what is meant by conservation practices.	REQUIREMENT 3: Do the following:	
The state of the s	REQUIREMENT 3 A: Tell what is meant by conservation pra	ctices
	RECORDINENT 5 At 16th What is illicant by conscivation pro	cuccs.

REQUIREMENT 3 B: Describe the effect of three kinds of erosion-control practices.	
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REQUIREMENT 3 C: Take pictures or dr	aw three kinds of erosion-control practice	S.
<b>REQUIREMENT 4:</b> Do the following:		
REQUIREMENT 4 A: Explain what a wat	ershed is.	
		li de la companya de
DECILIDEMENT 4 R. Outling the smaller	st watershed that you can find on a contou	ır man
	st watershed that you can find on a contot	и тар.
Completed		
<b>REQUIREMENT 4 C:</b> Then outline on you in it.	our map, as far as possible, the next large	er watershed which also has the smallest
Completed		

REQUIREMENT 4 D: Explain what a river basin is. Tell why all people living in a river basin should be concerned abou and and water use in it.
REQUIREMENT 4 E: Explain what an aquifer is and why it can be important to communities.
REQUIREMENT 5: Do the following:
REQUIREMENT 5 A: Make a drawing to show the hydrologic cycle.



<b>REQUIREMENT 5 B:</b> Show by demonstration at least two of the following actions of water in relation to soil: percolation, capillary action, precipitation, evaporation, transpiration.
Completed first demonstration
Completed second demonstration
<b>REQUIREMENT 5 C:</b> Explain how removal of vegetation will affect the way water runs off a watershed.
<b>REQUIREMENT 5 D:</b> Tell how uses of forest, range, and farm land affect usable water supply.
REQUIREMENT 5 E: Explain how industrial use affects water supply.
REQUIREMENT 6: Do the following:
REQUIREMENT 6 A: Tell what is meant by "water pollution."

REQUIREMENT 6 B: Describe common sources of water pollu	ution and explain the effects of each.
<b>REQUIREMENT 6 C:</b> Tell what is meant by "primary water toxygen demand."	treatment," "secondary waste treatment," and "biochemical
Primary water treatment	
	1.
Secondary waste treatment	
Biochemical oxygen demand	
REQUIREMENT 6 D: Make a drawing showing the principles of	of complete waste treatment
REQUIREMENT O D. Make a drawing showing the principles of	or complete waste treatment.
REQUIREMENT 7: Do TWO of the following:	
DECILIDEMENT 7. A. Maka a trip to TWO of the following place	cas Write a report of more than 500 words about the sail and
<b>REQUIREMENT 7 A:</b> Make a trip to TWO of the following plac water and energy conservation practices you saw.	les. Write a report of more than 500 words about the soil and
REQUIREMENT 7 A 1: An agricultural experiment	
Visited location	Wrote report

<b>REQUIREMENT 7 A 2:</b> A managed forest or woodlot, range,	or pasture
Visited location	Wrote report
<b>REQUIREMENT 7 A 3:</b> A wildlife refuge or a fish or game ma	anagement area
REQUIREMENT / A S. A whalle relage of a fish of game me	
Visited location	Wrote report
REQUIREMENT 7 A 4: A conservation-managed farm or ran	ch
Visited location	Wrote report
REQUIREMENT 7 A 5: A managed watershed	
Visited location	Wrote report
REQUIREMENT 7 A 6: A waste-treatment plant	
Visited location	Wrote report
<b>REQUIREMENT 7 A 7:</b> A public drinking water treatment pla	int
Visited location	Wrote report
REQUIREMENT 7 A 8: An industry water use installation	
Visited location	Wrote report
REQUIREMENT 7 A 9: A desalinization plant	
Visited location	Wrote report
<b>REQUIREMENT 7 B:</b> Plant 100 trees, bushes, and/or vines for	or a good purpose.
Completed	
<b>REQUIREMENT 7 C:</b> Seed an area of at least 1/5 acre for sor legumes alone or in a mixture.	ome worthwhile conservation purpose, using suitable grasses
Completed	

<b>REQUIREM</b> outline an a	<b>ENT 7 D:</b> Study a soil survey report. Describe the things in it. On tracing paper over any of the soil makes with three or more different kinds of soil. List each kind of soil by full name and map symbol.	naps,
	hings in a soil survey report	
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Outline	ad area	
Outiline	eu died	
List each kind	of soil by full name and map symbol	
List cacii kilia	of 3011 by full fluinc and fluip Symbol	
DEGUIDEN		
sedimentati	<b>ENT 7 E:</b> Make a list of places in your neighborhood, camps, school ground, or park that have erosion, or pollution problems. Describe how these could be corrected through individual or group action.	sion,
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REQUIREM	ENT 7 F: Carry out any other soil and water conservation project approved by your merit badge counselor.	
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Comple	etea etea	