PIONEERING MERIT BADGE WORKBOOK

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

Consider also using the Pioneering merit badge class preparation page for clarification and expections when participating in a Scoutmaster Bucky merit badge opportunity (<u>online</u> or <u>in-person</u>).

https://scoutmasterbucky.com/merit-badges/pioneering/

Scout's Name:		
REQUIREMENT 1: Do the following:		
REQUIREMENT 1 A: Explain to your counselor the most likely hazards you might encounter while participating in pioneering activities and what you should do to anticipate, help prevent, mitigate, and respond to these hazards.		
Most likely hazards		
Anticipate hazards		
Prevent hazards		

Mitigate hazards	
Respond to hazards	
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Insect bites and stings Hypothermia	

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Heatstroke	
Sunburn	

Falls				
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REQUIREMENT 2: Do the following:				
REQUIREMENT 2 A: Demonstrate the West 0	Country method	of whipping a rope.		
Demonstrated West Country method of whipping	a rope			
REQUIREMENT 2 B: Demonstrate how to tie a rope tackle and the following knots: clove hitch formed as two half hitches, clove hitch on a bight, butterfly knot, roundturn with two half hitches, and rolling hitch.				
Clove hitch formed as two half hitches		Clove hitch on a l	bight	
Butterfly knot	Roundturn with t	wo half hitches	Rolling hitch	
REQUIREMENT 2 C: Demonstrate and explain when to use the following lashings: square, diagonal, round, shear, tripod, and floor lashing.				
Lashing		When to use		
Square				
Diagonal				
Round				
Shear				
Tripod				
Floor				
REQUIREMENT 3: Do the following:				
REQUIREMENT 3 A: Using square and tripod lashings from requirement 2c, build a Tripod Wash Station (or with your				
counselor's permission, another camp gadget of your own design).				
Completed				

REQUIREMENT 3 B: Using rolling hitches or roundturns with two half hitches, and round lashings from requirements 2b and 2c, build a 15-foot Scout Stave Flagpole (or with your counselor's permission, another camp gadget of your own design).
Completed
REQUIREMENT 3 C: Using shear, square, and floor lashings, clove hitches on a bight, and rope tackles from requirements 2b and 2c, build a Simple Camp Table (or with your counselor's permission, another camp gadget of your own design.
Completed
REQUIREMENT 4: Explain the differences between synthetic ropes and natural fiber ropes. Discuss which types of rope are suitable for pioneering work and why. Include the following in your discussion: breaking strength, safe working loads, and the care and storage of rope.
REQUIREMENT 5: Explain the uses for the back splice, eye splice, and short splice. View a demonstration on forming each splice.
REQUIREMENT 6: Using a rope-making device or machine, make a rope at least 6 feet long consisting of three strands, each having three yarns. Whip the ends.
Completed

REQUIREMENT 7: Explain the importance of effectively anchoring a pioneering project. Describe to your counselor the 3-2-1 anchoring system and the log-and-stake anchoring system.		
REQUIREMENT 8: Describe the lashings that are used when braces contribute to the overall structural integrity of a pione		
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REQUIREMENT 9: Working in a group, (or individually with the help of your counselor) build a full size pioneering structure, using one of the following designs in the merit badge pamphlet.		
Double A-Frame Monkey Bridge		
 Single A-Frame Bridge Single Trestle Bridge Single Lock Bridge 		
4x4 Square Climbing TowerFour Flag Gateway Tower		
 Double Tripod Chippewa Kitchen Another type of structure approved in advance by your counselor 		
Carefully plan the project, assembling and organizing all the materials, referring to the points under Safe Pioneering, and complying with the height restrictions in the <i>Guide to Safe Scouting</i> .		