

## **Pioneering**

## 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

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

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.

No one may add or subtract from the official requirements found on Scouting.org.

The requirements were last issued or revised in 2022 • This workbook was updated in May 2022.

Scout's Name:				Unit:	
Counselor's Name: Phone No.:			Phone No.:	Email:	
	Com			e <u>merit badge</u> should be sent to: <u>Merit.Badge@Scouting.Org</u>	
1	. а.		nd what you should do to anticipate, help	you might encounter while participating in pioneering elp prevent, mitigate, and respond to these hazards.	
		What you s	hould do :		
		Anticipate			
		Prevent			
		Mitigate			
		Respond			

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Pioneering		Scout's Name:
□ b.	on pioneering pr	rention of, and first aid treatment for, injuries and conditions that could occur while working ojects, including rope splinters, rope burns, cuts, scratches, insect bites and stings, hydration, heat exhaustion, heatstroke, sunburn, and falls.
	Rope splinters:	
	Rope burns	
	Cuts:	
	Scratches:	
	Insect bites and stings:	
	Hypothermia:	
	Dehydration:	
	Heat Exhaustion:	
	Heat Stroke:	
	Sunburn:	
	Falls:	

Pioneer	ing		Scout's Name:	
<u> </u>	Do	the following:		
	a.	Demonstrate the West Country method of whipping a rope.		
	b.	Demonstrate how to tie a rope tackle and the following knots		
		Clove hitch formed as two half hitches		
		Butterfly knot		
		Roundturn with	n two half hitches, and	
		Rolling hitch.		
	C.	Demonstrate and e	explain when to use the following lashings: square, diagonal, round, shear, tripod, and floor	
		square		
		diagonal		
		round		
П		shear		
_				
П		tripod		
		·		
П		floor		
□ 3.	Do	the following:		
	a.	Using square and t	cripod lashings from requirement 2c, build a Tripod Wash Station (or with your counselor's	
	h	-	er camp gadget of your own design).  es or roundturns with two half hitches, and round lashings from requirements 2b and 2c, build	
Ш	b.		ave Flagpole (or with your counselor's permission, another camp gadget of your own design).	
	C.		e, and floor lashings, clove hitches on a bight, and rope tackles from requirements 2b and Camp Table (or with your counselor's permission, another camp gadget of your own design.	

Pioneer	ing	Scout's Name:
<b>4</b> .	Explain the differences be	etween synthetic ropes and natural-fiber ropes.
	Synthetic ropes	
	Natural-fiber	
	ropes	
	Discuss which types of robreaking strength, safe w	ope are suitable for pioneering work and why. Include the following in your discussion: orking loads, and the care and storage of rope.
	Type of rope:	
	Why suitable:	
	Breaking strength	
	Safe working loads	
	Care & storage	
	Type of rope:	
	Why suitable:	
	Breaking strength	

Pioneering	Scout's Name:
Safe working load	S
Care & storage	
Type of rope:	
Why suitable:	
Breaking strength	
Safe working load	S .
<b>3</b> ***	
Care & storage	
5. Explain the uses for the	back splice, eye splice, and short splice.
Back splice:	
Eye splice:	
Ol. 1. 1.	
Short splice:	
☐ View a demonstration o	n forming each splice

Pioneer	ing Scout's Name:
☐ 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.
<b>7</b> .	Explain the importance of effectively anchoring a pioneering project.
П	Describe to your counselor the 3-2-1 anchoring system and the log-and-stake anchoring system.
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□ 8.	Describe the lashings that are used when building a trestle,
	how the poles are positioned.
	and how X braces contribute to the overall structural integrity of a pioneering project.
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Pioneer	ing Scout's Name:
	All pioneering projects must comply with height standards as outlined in the Guide to Safe Scouting.

<u> </u>	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 Tower
	Four 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>

When working on merit badges, Scouts and Scouters should be aware of some vital information in the current edition of the *Guide to Advancement* (BSA publication 33088). Important excerpts from that publication can be downloaded from <a href="http://usscouts.org/advance/docs/GTA-Excerpts-meritbadges.pdf">http://usscouts.org/advance/docs/GTA-Excerpts-meritbadges.pdf</a>.

You can download a complete copy of the Guide to Advancement from http://www.scouting.org/filestore/pdf/33088.pdf.