

Pioneering





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 Scouts BSA Requirements (Pub. 33216 - SKU 653801).

The requirements were last issued or revised in <u>2014</u> • This workbook was updated in <u>June 2020</u>.

Scout's Na	nme:		Unit:		
		Phone No.:			
Cor		http://www.USScouts.Org nit errors, omissions, comments or suggest estions for changes to the requirements for	ions about this workb		
1. D	o the following	:			
a		rour counselor the most likely hazards y nould do to anticipate, help prevent, mit	tigate, and respond t		
	What you s				
	Anticipate				
	Prevent				
	Mitigate				
	Respond				

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pioneering projects, indehydration, heat exha	cluding rope splinters, rope burns, cuts, scratches, insect bites and stings, hypothermia, justion, heatstroke, sunburn, and falls.
Rope splinters:	
Rope burns	
Cuts:	
Scratches:	
Insect bites	
and stings:	
Hypothermia:	
Dehydration:	
Heat	
Exhaustion:	
Heat Stroke:	
Sunburn:	
Sullbuill.	
Falls:	

Discuss the prevention of, and first aid treatment for, injuries and conditions that could occur while working on

Pioneer	ring Scout's Name:			
2.	Do	Oo the following:		
	a.	Demonstrate the basic and West Country methods of whipping a rope.		
		Fuse the ends of a rope.		
	b.	Demonstrate how to tie the following knots		
		☐ Clove hitch		
		☐ Butterfly knot	☐ Carrick bend	
		Roundturn with two half hitches	☐ Sheepshank	
		☐ Rolling hitch	☐ Sheet bend	
	C.) Demonstrate and explain when to use the following las lashing	hings: square, diagonal, round, shear, tripod, and floor	
		☐ Square lashing	☐ Shear lashing	
		☐ Diagonallashing	☐ Tripod lashing	
		Round lashing	☐ Floor lashing	
3.		plain why it is useful to be able to throw a rope, then demo	onstrate how to coil and throw a 40-foot length of 1/4- or 3/8-	
		Description of the second seco	(A	
		Demonstrate how to coil and throw a 40-foot length of 1/		
	EX	plain how to improve your throwing distance by adding we	ight to the end of your rope.	

4.	Explain the differences be	etween synthetic ropes and natural-fiber ropes.
	Synthetic ropes	
	Natural-fiber	
	ropes	
	Discuss which types of rostrength, safe working loa	ope are suitable for pioneering work and why. Include the following in your discussion: breaking ads, 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	
	Safe working loads	
	•	
	Care & storage	
	2 2 2 2 2 3 3 3 3	

Scout's Name:

Pioneering

Type of rope:	
Why suitable:	
Breaking strength	
Safe working loads	
Care & storage	
Type of rope:	
Why suitable:	
Breaking strength	
Safe working loads	
Care & storage	
Turns of source	
Type of rope:	
Why suitable:	
D 1: 1 11	
Breaking strength	
Safe working loads	
Care & storage	

Scout's Name: _____

Pioneering

Pioneer	ring	Scout's Name:
5.	Explain the us	ses for the back splice, eye splice, and short splice.
	Back splice:	
	Eye splice:	
	•	
	Short splice:	
	G	
	Using 1/4- or (3/8-inch three-stranded rope, demonstrate how to form each splice.
	Back splic	
	Eye splice	
	☐ Short spli	
☐ 6.		making device or machine, make a rope at least 6 feet long consisting of three strands, each having three
_	yarns.	
	Whip the ends	i.
7 .	Explain the im	portance of effectively anchoring a pioneering project.
	Describe to yo	our counselor the 1-1-1 anchoring system and the log-and-stake anchoring methods.

Pioneering	Scout's Name:
3. With th	he approval of your counselor, demonstrate and use a rope tackle. Be sure the rope tackle is secured properly.
Explai	in the advantages and limitations of using a rope tackle.
Advan	
Lineite	Hana.
Limitat	LIOTIS.
Descri	ibe the potential damage that friction can do to a rope
	All pioneering projects constructed for this merit badge must comply
	with height standards as outlined in the Guide to Safe Scouting.
ີ 9. By yoເ	urself, build a trestle using square and diagonal lashings.
	in why trestles are used when constructing pioneering projects.
	m my accept and accept men conceaseding pronocing projector

Pioneer	ring Scout's Name:			
10.	With the approval of your counselor and using appropriate lashings and pioneering techniques, build and use one full-size pioneering project from either group A or group B. Your project must comply with the requirements of the Guide to Safe Scouting. (Requirement 10 may be done at summer camp, at district or council events, or on a troop camp outing.)			
	Group A: Tow	er OR bridge		
	Anch	or your project as appropriate and necessary. Explain how your anchoring system works.		
	Group A projects may be worked on in a group and with others.			
	Group B: Camp chair OR camp table			
	Grou	p B projects must be worked on individually.		
	Project selected:			
	Counselor's approval:	Date:		

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 http://usscouts.org/advance/docs/GTA-Excerpts-meritbadges.pdf.

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