



# Scoutmaster Bucky

## PIONEERING

### Merit Badge Workbook

This Workbook has been developed to help aid in organizing notes and references while working on the Pioneering Merit Badge Requirements.

Visit [www.ScoutmasterBucky.com](http://www.ScoutmasterBucky.com) for more information

SCOUT'S INFORMATION	MERIT BADGE COUNSELOR INFORMATION
Name _____	Name _____
Phone _____	Address _____
Organization _____	City State Zip _____
<b>WORKBOOK INFORMATION</b>	
Scoutmaster Bucky Workbook based off of <i>Boy Scout Requirements – 2011 Edition</i>	
Visit <a href="http://www.ScoutmasterBucky.com">www.ScoutmasterBucky.com</a> for more information.	
	Phone _____
	Mobile _____
	Email _____

**REQUIREMENT 1:** SHOW THAT YOU KNOW FIRST AID FOR INJURIES OR ILLNESS THAT COULD OCCUR WHILE WORKING ON PIONEERING PROJECTS, INCLUDING MINOR CUTS AND ABRASIONS, BRUISES, ROPE BURNS, BLISTERS, SPLINTERS, SPRAINS, HEAT AND COLD REACTIONS, DEHYDRATION, AND INSECT BITES OR STINGS.

Notes:



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Minor Cuts and Abrasions:

Bruises:

Rope Burns:

Blisters:



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Splinters:

Sprains:

Heat and Cold Reactions:

Dehydration:

Insect Bites or Stings:



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**REQUIREMENT 2A:** SUCCESSFULLY COMPLETE TENDERFOOT REQUIREMENTS 4A AND 4B AND FIRST CLASS REQUIREMENTS 7A, 7B, AND 7C. (THESE ARE THE ROPE-RELATED REQUIREMENTS).

This is a skill based requirement and does not require any workbook entry.  
You will need to be able to demonstrate this requirement to your counselor.

**REQUIREMENT 2B:** TIE THE FOLLOWING: SQUARE KNOT, BOWLINE, SHEEPSHANK, SHEET BEND, AND ROUNDTURN WITH TWO HALF HITCHES.

This is a skill based requirement and does not require any workbook entry.  
You will need to be able to demonstrate this requirement to your counselor.

**REQUIREMENT 2C:** DEMONSTRATE THE FOLLOWING: TRIPOD AND ROUND LASHINGS.

This is a skill based requirement and does not require any workbook entry.  
You will need to be able to demonstrate this requirement to your counselor.

**REQUIREMENT 3:** EXPLAIN WHY IT IS USEFUL TO BE ABLE TO THROW A ROPE,...

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**REQUIREMENT 3:** ...THEN DEMONSTRATE HOW TO COIL AND THROW A 40-FOOT LENGTH OF ¼- OR 3/8-INCH ROPE.

This is a skill based requirement and does not require any workbook entry.  
You will need to be able to demonstrate this requirement to your counselor.

**REQUIREMENT 3:** EXPLAIN HOW TO IMPROVE YOUR THROWING DISTANCE BY ADDING WEIGHT TO THE END OF YOUR ROPE.

Notes:

**REQUIREMENT 4:** EXPLAIN THE DIFFERENCES BETWEEN SYNTHETIC ROPES AND NATURAL-FIBER ROPES.

Notes:



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**REQUIREMENT 4:** 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.

Notes:

Breaking Strength:

Safe Working Loads:

Care and Storage of Rope:



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**REQUIREMENT 5:** EXPLAIN THE USES FOR THE BACK SPLICE, EYE SPLICE, AND SHORT SPLICE.

Back Splice:

Eye Splice:

Short Splice:

**REQUIREMENT 5:** USING 1/4- OR 3/8-INCH THREE-STRANDED ROPE, DEMONSTRATE HOW TO FORM EACH SPLICE.

This is a skill based requirement and does not require any workbook entry.  
You will need to be able to demonstrate this requirement to your counselor.



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**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.

This is a skill based requirement and does not require any workbook entry.  
You will need to be able to demonstrate this requirement to your counselor.

**REQUIREMENT 7:** BUILD A SCALE MODEL OF A SIGNAL TOWER OR A MONKEY BRIDGE. CORRECTLY ANCHOR THE MODEL USING EITHER THE 1-1-1 ANCHORING SYSTEM OR THE LOG AND STAKE ANCHORING METHOD. DESCRIBE THE DESIGN OF YOUR PROJECT AND EXPLAIN HOW THE ANCHORING SYSTEM WORKS.

Notes:



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**REQUIREMENT 8:**

DEMONSTRATE THE USE OF ROPE TACKLE TO LIFT A WEIGHT OF 25 POUNDS AND PULLING A LOG AT LEAST 6 INCHES IN DIAMETER AND 6 FEET LONG WITH THE TACKLE. USE THE TACKLE TO PUT TENSION ON A LINE. EXPLAIN THE ADVANTAGES AND LIMITATIONS OF USING A ROPE TACKLE. IN YOUR EXPLANATION, DESCRIBE THE POTENTIAL DAMAGE THAT FRICTION CAN DO TO A ROPE.

Notes:



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**REQUIREMENT 9:**

BY YOURSELF, BUILD AN A-TRESTLE OR X-TRESTLE OR H-TRESTLE USING SQUARE AND DIAGONAL LASHINGS. EXPLAIN THE APPLICATION OF THE TRESTLE YOU BUILD. DEMONSTRATE HOW TO TIE TWO SPARS TOGETHER USING A SHEAR LASHING.

Notes:



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#### REQUIREMENT 10:

WITH A GROUP OF SCOUTS OR ON YOUR OWN, SELECT A PIONEERING PROJECT AND GET YOUR COUNSELOR'S APPROVAL BEFORE YOU BEGIN BUILDING. WITH YOUR COUNSELOR'S GUIDANCE, CREATE A ROUGH SKETCH OF THE PROJECT. MAKE A LIST OF THE ROPES AND SPARS NEEDED, THEN BUILD THE PROJECT. (NOTE: THIS REQUIREMENT MAY BE DONE AT SUMMER CAMP, AT DISTRICT OR COUNCIL EVENTS, OR ON A TROOP CAMP OUTING).

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Counselor's Name

\_\_\_\_\_

Phone

\_\_\_\_\_

Counselor's Signature

\_\_\_\_\_

Date

Approved

Notes: