

Pioneering

Merit Badge Workbook

This workbook can help you but you still need to read the merit badge pamphlet (book). No one can add or subtract from the Boy Scout Requirements #33215. Merit Badge Workbooks and much more are below: Online Resources. Workbook developer: craig@craiglincoln.com. Requirements revised: 2006, Workbook updated: April 2008.

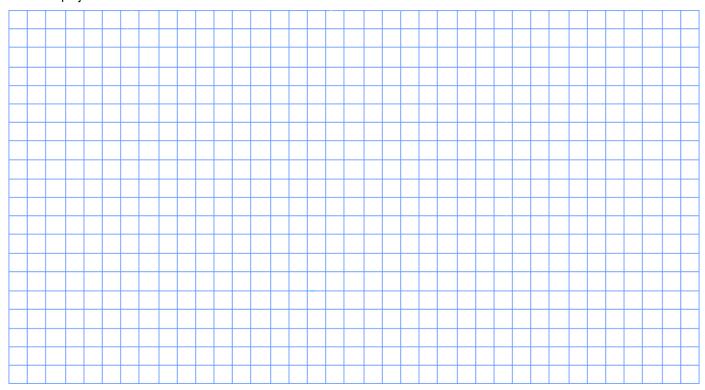
| Scc | Scout's Name: Unit: | |
|-----|---|----------------|
| | Counselor's Name: Counselor's Ph #: | |
| | Show that you know first aid for injuries or illness that could occur while working on pioneering projects, including minor cuts and abrasions, | • |
| | bruises, | |
| | rope burns, | |
| | blisters, | |
| | splinters, | |
| | sprains, | |
| | heat and cold reactions, | |
| | dehydration, | |
| | and insect bites or stings. | |
| 2. | 2. Do the following: | |
| | Successfully complete Tenderfoot requirements 4a and 4b and First Class requirements 7a, 7b, and 7c. (Thes related requirements.) | e are the rope |
| ٥. | o. <i>Tie</i> the following: square knot, bowline, sheepshank, sheet bend, and roundturn with two half hitches | |
| С. | c. Demonstrate the following: tripod and round lashings. | |
| 3. | 3. Explain why it is useful to be able to throw a rope, | |
| | then <i>demonstrate</i> how to coil and throw a 40-foot length of 1/4- or 3/8-inch rope. Explain how to improve your distance by adding weight to the end of your rope. | • |

| A. Explain the differences between synthetic ropes | Pion | eering p. 2 | Merit Badge Workbook | Scout's Name: | | | | |
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| 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. Type of rope: Why suitable: Breaking strength Safe working loads Care & storage Type of rope: Why suitable: Breaking strength Safe working loads Care & storage Type of rope: Why suitable: Breaking strength Safe working loads Care & storage Type of rope: Why suitable: Breaking strength Safe working loads Care & storage Type of rope: Why suitable: Breaking strength Safe working loads Care & storage Type of rope: Why suitable: Breaking strength Safe working loads Care & storage Type of rope: Why suitable: Breaking strength Safe working loads Care & storage Type of rope: Why suitable: Breaking strength Safe working loads | - | | | | | | | |
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Type of rope: _____

| Pic | oneering p. 3 | Merit Badge Workbook | Scout's Name: |
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| | Why suitable: | | |
| | Breaking strength | | |
| | Safe working loads | | |
| | | | |
| 5. | Explain the uses for the back | splice, | |
| | eye splice, | | |
| | | | |
| | Using 1/4- or 3/8-inch three-st | tranded rope, <i>demonstrate</i> how to form eac | h splice |
| 6. | | r machine, make a rope at least 6 feet long | consisting of three strands, each having three |
| 7. | | | or the model using either the 1-1-1 anchoring systen ct and explain how the anchoring system works. |
| 8. | | | g a log at least 6 inches in diameter and 6 feet long |
| | • | e 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 |
| 9. | | OR X-trestle OR H-trestle using square and | diagonal lashings. Explain the application of the |
| | | | |
| | Demonstrate how to tie two sp | oars together using a shear lashing | |

10. With a group of Scouts, OR on your own, select a pioneering project. With your counselor's guidance, create a rough sketch of the project.



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| | | |
| | | pes and spars needed, then build the project. (Note: This requirement may be donents, or on a troop camp outing.) |

Online Resources (Use any Internet resource with caution and only with your parent's or guardian's permission.)

Boy Scouts of America: ► scouting.org ► Guide to Safe Scouting ► Age-Appropriate Guidelines ► Safe Swim Defense

► <u>Scout</u> ► <u>Tenderfoot</u> ► <u>Second Class</u> ► <u>First Class</u> <u> ■ Rank Videos</u> ► <u>Safety Afloat</u>

<u>ExpertVillage First Aid Videos</u> <u>≤ Make a First Aid Kit</u> <u>≤ Basics</u> <u>≤ Basics</u> <u>≤ CPR Basics</u> <u>≤ Venomous Snake Bite</u>

<u>USScouts.org</u>: ► <u>Animated Knots</u>