

# Pioneering Merit Badge Worksheet



## Requirement 1

- Make a gadget for making rope, using local materials.
- With this gadget make a 20-foot rope, ½ inch or more in diameter.
- Whip the ends.
- Hand coil a length of rope.

## Requirement 2

Explain the following:

Kinds of Rope: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Care for Rope: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Weakening Effect of Knots: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Requirement 3

Tie twelve knots and hitches and explain how to use them in pioneering. List the twelve knots and hitches you tied.

1. \_\_\_\_\_ - \_\_\_\_\_
2. \_\_\_\_\_ - \_\_\_\_\_
3. \_\_\_\_\_ - \_\_\_\_\_
4. \_\_\_\_\_ - \_\_\_\_\_
5. \_\_\_\_\_ - \_\_\_\_\_
6. \_\_\_\_\_ - \_\_\_\_\_
7. \_\_\_\_\_ - \_\_\_\_\_
8. \_\_\_\_\_ - \_\_\_\_\_
9. \_\_\_\_\_ - \_\_\_\_\_
10. \_\_\_\_\_ - \_\_\_\_\_
11. \_\_\_\_\_ - \_\_\_\_\_
12. \_\_\_\_\_ - \_\_\_\_\_

### Requirement 4

Make the following splices and explain the uses of each.

- Short Splice - \_\_\_\_\_
- Long Splice - \_\_\_\_\_
- End Splice - \_\_\_\_\_
- Eye Splice - \_\_\_\_\_

### Requirement 5

Lash spars together properly using the following:

- Square Lashing
- Diagonal Lashing
- Shear Lashing

### Requirement 6

Design, have the design approved, and construct any of the following: Bamboo Bridge, Signal Tower, Money Bridge, Raft, Shelter.

Design the project below:

Counselor Approval of the Design: \_\_\_\_\_

Unit Leader Approval of the Design: \_\_\_\_\_

Scout Name \_\_\_\_\_ Unit # \_\_\_\_\_ Date \_\_\_\_\_

Explain the principles involved in the construction: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Request the members of your patrol to assist in the construction.

## **Requirement 7**

Do any three of the following:

- Make a three strand turk's head neckerchief slide.
- Show how to make a camp kitchen.
- Explain and demonstrate pioneering anchorages for different projects in various types of soil.
- Demonstrate Patrol leadership in constructing a pioneering project designed by you.
- Make and submit two-(2) scale models of pioneering projects.