



BLUE MERIT

Tool Craft

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Tool Craft



Merit Overview

In This Merit

Merit Answer Guide

MLR* 1 “Three Laws of Tool Safety and Ax Parts”

MLR 2 “Three Laws of Tool Safety and Knife Parts”

MLR 3a “Three Laws of Tool Safety and Saw Parts”

MLR 3b “Name It Game”

*MLR: Merit Lesson Resource

Lesson 3 covers parts of requirements 3, 4, 6, and 7.

Lesson 4 covers requirement 8 and parts of 6 and 7.

Lesson 5 covers requirement 9.

Note: Order a Tool Craft Safety card for each boy from Gospel Publishing House. These can be presented at your next Council of Achievement or given to each boy at the completion of this merit.

Teaching This Merit

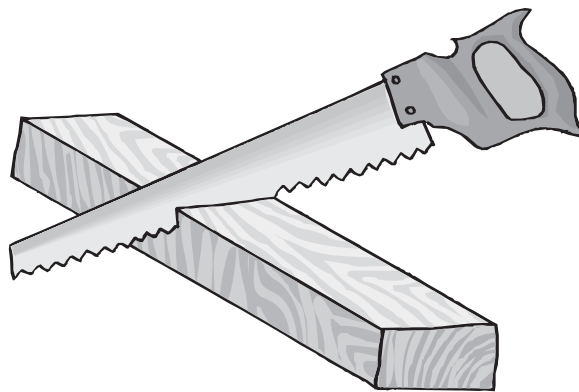
Lesson 1 covers requirements 1 and 2 and parts of 3 and 4.

Lesson 2 covers requirement 5 and parts of 3, 4, 6, and 7.

Other Sources

Adventures in Camping

Camping in the Wilderness by Paul Tawrell



Tool Craft Merit Answer Guide

Note: This merit is required to earn the Gold Medal of Achievement.

1. List ten commonly used hand tools.

Answers could include hammer, rip saw, backsaw, hacksaw, bow saw, folding camp saw, screwdriver, hand ax, three-quarter ax, long-handled ax, sheathed knife, pocketknife, file(s), hoe, posthole digger, shovel, rake, wheelbarrow, scissors, clippers, pitchfork, square, sledgehammer, splitting maul, scythe, sickle, wrench, pliers, stapler, tape measure, clamp, socket wrench.

2. List five hand tools used on a campout.

Answers could include hammer, bow saw, folding camp saw, screwdriver, hand ax, three-quarter ax, long-handled ax, sheathed knife, pocketknife, file(s), hoe, posthole digger, shovel, rake, wrench, and pliers.

3. List and explain the three laws of tool safety.

- *Law 1: Common Sense. Always handle all tools properly, never play with them, and never use them in a manner that the tool was not designed for. Take care of your tools, and they will take care of you.*
- *Law 2: Courtesy. Always say “thank you” when receiving a tool and “you’re welcome” when giving a tool to another person.*
- *Law 3: Safety. Choose the right tool for the right job. Use tools in a specific tool craft area. Keep all tools with a cutting edge sheathed when not in use. Keep sharp edges pointed away from the body when in use. Follow the rules for each tool.*

4. List and identify the parts of each of the following tools:

- a. Hand ax (14)
- b. Pocket knife (11)
- c. Bow saw (4)

Verify the boy’s answers with the Answer Keys at the end of this Answer Guide.

5. Demonstrate the proper way to open and close a pocketknife.

- *Open a Pocketknife: Hold the pocketknife in one hand. With the thumb and forefinger of the other hand, pull out the blade. The nail mark is for the thumb to grab the blade more easily.*
- *Close a Pocketknife: Hold the back edge of the open blade and close it carefully. The other hand should be holding the handle in much the same manner in which it held the knife while opening it.*

6. Demonstrate how to properly pass a:

- a. Hand ax (*see description in Lesson 4*)
- b. Knife (*see description in Lesson 2*)
- c. Bow saw (*see description in Lesson 3*)
- d. Long-handled ax and other long-handled tools

Watch the boys demonstrate each of the following.

7. Demonstrate how to properly carry a:

- a. Hand ax (*see description in Lesson 4*)
- b. Knife (*see description in Lesson 2*)
- c. Bow saw (*see description in Lesson 3*)
- d. Long-handled ax and other long-handled tools


Watch the boys demonstrate each of the following.

- d. Long-handled ax and other long-handled tools

8. Demonstrate how to properly sharpen a pocketknife. (Skills for sharpening an ax are demonstrated in the Knife and Hawk Merit.)

Watch the boys demonstrate. (see description in lesson 4)

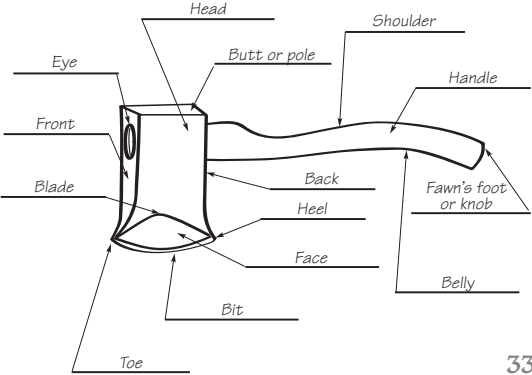
9. Explain how tools should be stored and what tools are inappropriate for use for Royal Rangers.
- *All tools should be stored in a tool craft area while at a campsite. Otherwise, they should be safely stored in a locked cabinet or building until needed. In addition, all tools should be properly sheathed. Sheaths should be removed only when a tool will be in use. When the tool is no longer used or needed, it should be sheathed and placed back in its proper storage area.*
 - *Tools that are inappropriate for use in Royal Rangers include the following: long-handled and three-quarter axes for boys not in high school. (Use hand axes only.) The Dayton-style ax head should not be used. (The Michigan head is the most widely used head.) A double-headed ax should never be used by any Royal Ranger. Machetes, swords, and other long-bladed knives should not be used. Sheathed knives are only to be used at FCF functions or events. (Pocketknives are the only recognized knives for boys and leaders.)*

MLR 1 


Three Laws of Tool Safety and Axe Parts

Three Laws of Tool Safety

1. *Common Sense: Always handle all tools properly, never play with them or use them in an undesignated manner. Take care of your tools and they will take care of you.*
2. *Courtesy: Always say "Thank you" when receiving a tool and "Your welcome" when giving a tool to another person.*
3. *Safety: Choose the right tool for the right job. Keeping tools, with a cutting edge, sheathed when not in use, and sharp edges pointing away from the body when in use.*



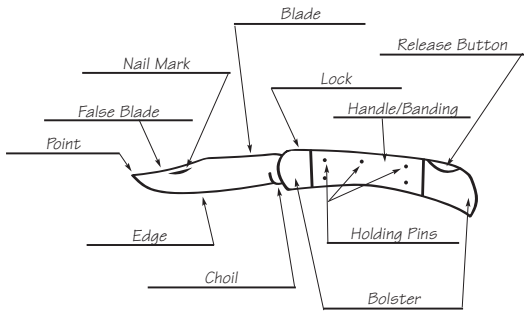
339

MLR 2 


Three Laws of Tool Safety and Knife Parts

Three Laws of Tools Safety

1. *Common Sense: Always handle all tools properly, never play with them or use them in an undesignated manner. Take care of your tools and they will take care of you.*
2. *Courtesy: Always say "Thank you" when receiving a tool and "Your welcome" when giving a tool to another person.*
3. *Safety: Choose the right tool for the right job. Keeping tools, with a cutting edge, sheathed when not in use, and sharp edges pointing away from the body when in use.*



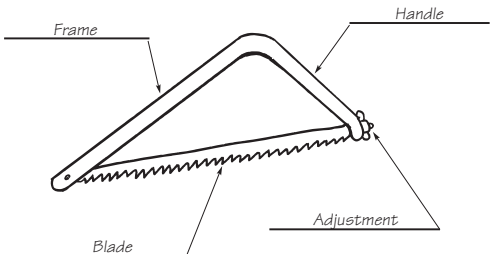
340

MLR 3a 


Three Laws of Tool Safety and Saw Parts

Three Laws of Tool Safety

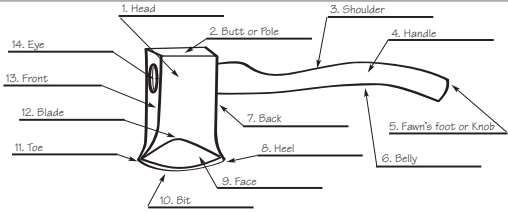
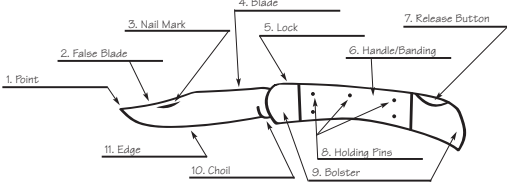
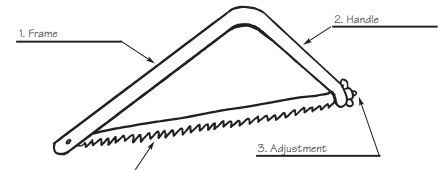
1. *Common Sense: Always handle all tools properly, never play with them, and never use them in a manner that the tool was not designed for. Take care of your tools and they will take care of you.*
2. *Courtesy: Always say "thank you" when receiving a tool and "you're welcome" when giving a tool to another person.*
3. *Safety: Choose the right tool for the right job. Keeping tools, with a cutting edge, sheathed when not in use, and sharp edges pointing away from the body when in use.*



341

MLR 3b 

Name It Game

342

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Tool Craft

Objectives

1. The boys will be able to list at least ten commonly used hand tools.
2. The boys will be able to list at least five hand tools used on a campout.
3. The boys will be able to give the three laws of tool safety.
4. The boys will be able to list and identify the fourteen parts of an ax.

Materials

- Merit Answer Guide
- MLR 1 “Three Laws of Tool Safety and Ax Parts”
- Overhead projector and markers
- Chalk and chalkboard or marker and large piece of butcher paper
- Hand ax with sheath
- Labels numbered one through fourteen attached to the parts of an ax
- One example of each tool in requirement 1
- Table to hold all the tools
- Tablecloth large enough to conceal all the tools

Preliminary Information

Most Royal Rangers will eventually spend some time camping and will need to know how to handle tools safely. Although some may choose not to camp, the skills learned in this merit will be important for them as well. They will be exposed to these tools at some point in their lives. It is vital that the boys learn the names and uses of tools and how to handle them safely.

This lesson will focus upon the basic elements of tool use and identification. The other lessons will reinforce the safety rules and the value of tools, especially while camping. It is important to be as interactive as possible during the lessons. Allow the boys to see and touch various tools and demonstrate their use and safety procedures. It is highly recommended that you make a large “Tool Craft Area” sign that can be used in the outpost,

during outings, and at camps.

Attach the numbered labels to the parts of the ax. Become familiar with the part names. Prepare MLR 1 “Three Laws of Tool Safety and Ax Parts” as a transparency to be used with an overhead projector.

Before the boys arrive, place the tools out of sight. Ask one boy, the senior guide or another responsible boy, to write the names of the tools on the chalkboard. He can also pull out the tools one at a time as they are discussed in the lesson.

Note: The sheathed knife should be a Frontiersman Camping Fellowship (FCF) knife in its sheath. It is important to reinforce that boys should not possess or use a sheathed knife in Royal Rangers.

Lesson

Hand Tools. Ask the boys to name all the hand tools they know. Call on boys who quietly raise their hands. Bring out the tools as they are

mentioned, and have your helper write the names on the board. Place the tools on the table, making sure all bladed tools are sheathed and all tined or

edged tools are facing downward. Continue until at least fifteen tools are named. If you've brought tools that the boys didn't mention, show them. Instruct the boys to open their workbook to the Tool Craft Merit and fill in the blanks for requirement 1.

Tools on a Campout. Ask the boys which tools would most likely be used while camping. Circle at least seven on the board. Allow the boys to write these in their workbook for requirement 2.

Choose two boys to point out tools that can be used for camping. Separate these tools on the table. Choose one boy at a time to point to the following tools: camp saw, pocketknife, sheathed FCF knife, hand ax, long-handled ax, shovel, and rake. Tell the boys that during this merit they will learn how to properly carry, use, and pass each of these tools.

Laws of Tool Safety. Place the transparency of MLR 1 "Three Laws of Tool Safety and Ax Parts" on the overhead projector. Cover everything except the title. Ask the boys to list the three laws of tool safety. If they are unable to do this, write the rules in the three blanks provided. Let the boys know that each week these rules will be reviewed and more information will be added. Have the boys write the titles only for the rules in their workbook for requirement 3: common sense, courtesy, and safety.

Ax Parts. Show the hand ax with the labeled parts. Begin with number one and ask the boys to name the part. Write the answer on the overhead transparency. Continue this for all the parts. For a few minutes, select parts randomly, and let the boys correctly name them. Then have them write these parts in their workbook for requirement 4. Encourage them to memorize the parts.

Advancement

Be sure the boys have completed requirements 1, 2, 3, and 4a in their workbook. Sign off on the requirements.

Recreation

Ax Parts Recall. Divide the boys into patrols or teams. Show the overhead transparency of MLR 1. Cover the answers. Starting with the first

team, point to the first part and let one boy give the part name. If he answers correctly, ask the next boy on his team to name the second part. Continue until all fourteen parts have been named or until an incorrect answer is given. Then go to the second team and begin again with the first part. Play for a designated amount time.



Tool Craft

Objectives

1. The boys will be able to demonstrate how to carry and pass a knife properly.
2. The boys will be able to demonstrate how to open and close a knife properly.
3. The boys will be able to list one safety statement for each of the safety rules.
4. The boys will be able to list and identify the eleven parts of a pocketknife.

Materials

- Merit Answer Guide
- MLR 2 “Three Laws of Tool Safety and Knife Parts”
- Overhead projector and markers
- Chalk and chalkboard or marker and large piece of butcher paper
- FCF knife with sheath
- Pocketknife
- Unsheathed kitchen knife
- Labels numbered one through eleven attached to the parts of a pocketknife
- One example of each tool in requirement 2
- Table to hold all the tools

Preliminary Information

The most widely used tool on campouts is the pocketknife. It is used for a variety of tasks. It is vital that you demonstrate a consistent and safe practice of knife use. You should use only the knives the boys are able to use. Therefore, don't carry a typical survival knife. If larger knives are needed during camping situations, then use the hand ax or bow saw.

The sheathed knife used in this lesson is what is normally used in FCF. Make a point of reminding the boys that sheathed knives are used only in FCF because of the nature of that program. They will receive additional skills and safety instruction for such knives in the Knife and Hawk Merit. The unsheathed knife used for this lesson should be a knife that can be safely handled by your group of boys. If you are concerned about

your boys using sharp knives, practice with a butter knife. Bring only one knife, and have each boy demonstrate the correct use to you or the senior guide. It is not advisable to have a number of knives to be shared by the boys, especially as they are just learning about their use.

Attach the numbered labels to the parts of the pocketknife. Become familiar with the part names. Prepare MLR 2 “Three Laws of Tool Safety and Knife Parts” as a transparency to be used with an overhead projector.

Before the boys arrive, place the tools out of sight. Ask one boy, the senior guide or another responsible boy, to write the names of the tools on the chalkboard. He can also pull out the tools one at a time as they are discussed in the lesson.

Lesson

Laws of Tool Safety. Ask the boys to list the three safety rules you discussed last week. Place

the transparency of MLR 2 “Three Laws of Tool Safety and Knife Parts” on the overhead projec-

tor. Show only the three rules. Ask the boys if they know what each rule means. If they are unable to explain, write the first statement of each rule from the Merit Answer Guide in the three blanks provided. Remind the boys that each week these rules will be reviewed and more information about them will be added. Instruct the boys to fill in this new information for the three safety rules in their workbook.

Knife Parts. Show the pocketknife with the labeled parts. Begin with number one, and ask the boys to name the part. Write the answer on the overhead transparency. Continue this for all the parts. For a few minutes, select parts randomly, and let the boys correctly name them. Then have them write these parts in their workbook for requirement 4. Encourage them to memorize the parts.

Opening and Closing a Pocketknife. Ask the boys if they noticed something about how you opened the pocketknife in order to show each part. Demonstrate the correct procedure while you give the following instructions: To open a pocketknife, hold it in one hand. With the thumb and forefinger of the other hand, pull out the blade. The nail mark is for the thumb to grab the blade more easily.

To close a pocketknife, hold the back edge of the open blade and close it carefully. The other hand should be holding the handle in much the

same manner in which it held the knife while opening it.

Allow the boys to demonstrate this skill one at a time for requirement 5.

How to Carry Knives. Ask the boys how a pocketknife should be carried—always closed. Ask the boys how they should carry a sheathed knife—always in a sheath.

Place both knives on the table, and have each boy demonstrate the proper method of carrying the pocketknife for requirement 7b. For some boys, open the knife and watch to see if they close it properly before carrying it.

How to Pass Knives. Demonstrate with the senior guide or another leader the proper methods of passing knives. Pass a pocketknife closed. Pass a sheathed knife in its sheath. In the event you need to pass a knife without a sheath, follow this procedure: Grasp the blade of the knife with your thumb and forefinger, keeping the edge facing out. The person receiving the knife will grasp the handle of the knife. If passing from the left hand, it should be received with the right hand. The person receiving the knife says, “Thank you,” and the person giving it says, “You’re welcome.”

Have each boy demonstrate this skill one at a time for you or the senior guide for requirement 6b.

Advancement

Be sure the boys have completed requirement 5 and parts of requirements 3, 4, 6, and 7 that were covered in the lesson. Sign off on the requirements.

Recreation

Pocketknife Recall. Divide the boys into patrols or teams. Display the overhead transparency of MLR 2 with the answers covered.

Starting with the first team, point to the first part, and let one boy give the part name. If he answers correctly, ask the next boy on his team to name the second part. Continue until all eleven parts have been named or until an incorrect answer is given. Then go to the second team and begin again with the first part. Play for a designated amount time.



Tool Craft

Objectives

1. The boys will be able to list and identify the four parts of a bow saw.
2. The boys will be able to demonstrate how to carry and pass a bow saw properly.
3. The boys will be able to finish writing all the safety statements for each safety rule.

Materials

- Merit Answer Guide
- MLR 3a “Three Laws of Tool Safety and Saw Parts”
- MLR 3b “Name It Game”
- Overhead projector and markers
- Bow saw
- Labels numbered one through four attached to the parts of a bow saw
- One example of each tool in requirement 2
- Table to hold all the tools

Preliminary Information

The bow saw is the tool of greatest use on a campout. It is important that everyone understands how to safely use it before camping. The bow saw is safer and easier to master than the long-handled ax. For boys in third through fifth grade, this should be the only cutting tool they use for large objects. As they grow in stature and strength, they will be able to use a long-handled ax safely.

In camp, the correct use of tools can make everything proceed more smoothly. The knife, ax, and saw are useful tools, but can be dangerous and even deadly in the wrong hands.

Safety should always be your first concern when tools are used. No one should be allowed to handle these tools until they have proven them-

selves both proficient in their use and sensible and able to follow the safety rules. The knife, ax, and saw can be used for everything from chopping firewood to creating complex gadgets and large shelters. They can help transform your campsite.

Attach the numbered labels to the parts of the bow saw. Become familiar with the part names. Prepare MLR 3a “Three Laws of Tool Safety and Saw Parts” as a transparency to be used with an overhead projector.

Before the boys arrive, place the tools out of sight. Ask one boy, the senior guide or another responsible boy, to pull out the tools one at a time as they are discussed in the lesson.

Lesson

Laws of Tool Safety. Ask the boys to list the three safety rules you discussed the last two weeks. Place the transparency of MLR 3a “Three Laws of Tool Safety and Saw Parts” on the overhead projector. Show the three rules and state-

ments you covered last week. Ask the boys if they know other statements that go with each rule. If they are unable to do this, write the remaining statements for each rule from the Merit Answer Guide in the three blanks provid-

ed. Instruct the boys to fill in this new information for the three safety rules in their workbook.

Bow Saw Parts. Show the bow saw with the labeled parts. Begin with number one, and ask the boys to name the part. Write the answer on the overhead transparency. Continue this for all the parts. For a few minutes select parts randomly, and let the boys correctly name them. Then have the boys write these parts in their workbook for requirement 4. Encourage them to memorize the parts.

Carrying a Bow Saw. Demonstrate the correct way to carry a bow saw: The bow saw should always be carried by the handle with the blade muzzled. Place the bow saw on the table, and have each boy demonstrate the proper method of carrying the bow saw for requirement 7c. For

some boys, unmuzzle the saw and be sure the boys muzzle it before carrying it.

Passing a Bow Saw. Demonstrate with the senior guide while you explain the proper method of passing the bow saw. Muzzle the blade before passing the saw. Grasp the saw frame above the blade. The handle should point toward the receiver. The receiver grasps the handle above the blade. If passing from the left hand, it should be received with the right hand. The person receiving the bow saw says, "Thank you," and the person giving it says, "You're welcome."

Have each boy demonstrate this skill one at a time for you or the senior guide for requirement 6c.

Advancement

Be sure the boys have completed the parts of requirements 3, 4, 6, 7 that were covered in the lesson. Sign off on the requirements.

Recreation

Name It Game. Divide the boys into teams of three or four. Give each group a copy of MLR 3b

"Name It Game." Set a time limit and instruct the boys to fill in as many blanks as they can. For every correct answer give the team one point. For every incorrect answer take away a point. The team with the most points wins.



Tool Craft

Objectives

1. The boys will be able to demonstrate how to carry and pass an ax properly.
2. The boys will be able to demonstrate how to carry a long-handled tool properly.
3. The boys will be able to demonstrate how to sharpen a pocketknife properly.

Materials

- Merit Answer Guide
- MLR 3a “Three Laws of Tool Safety and Saw Parts”
- Pocketknife
- Whetstone or other sharpening stone
- Gloves (adult and child sizes)
- Long-handled ax and other long-handled tools
- Hand ax with sheath
- Backpack
- One example of each tool in requirement 2
- Table to hold all the tools

Preliminary Information

The boys will not be trained in the use of an ax in this course. However, it is important for them to be able to carry and pass an ax safely. Regardless of how proficient a young man may be with an ax, never allow boys in Discovery Rangers to use one. They can cause great and sometimes irreparable damage to the user and those around him. The boys can learn more about an ax when they are older through the Knife and Hawk Merit.

The hand ax is an important camping tool. It is also called a hatchet. An advantage of the hand ax over the long-handled ax is that it can be safe-

ly and easily carried in a backpack. This will be demonstrated for the boys, but they will not be required to demonstrate it for this merit.

Every tool should be kept sharp for proper use. The boys will learn how to sharpen an ax in the Knife and Hawk Merit. The bow saw should always be sharpened at a saw shop. The pocketknife is a tool the boys can sharpen safely.

Be sure you have ordered the Tool Craft Safety cards to be presented at the next meeting or during the Council of Achievement.

Before the boys arrive, place all the tools on the table. Place the backpack off to one side.

Lesson

Laws of Tool Safety. Ask the boys to list the three safety rules and the statements for each rule. Use the transparency of MLR 3a “Three Laws of Tool Safety and Saw Parts,” if needed.

Carrying a Hand Ax. Demonstrate the correct way to carry a hand ax: It should always be

carried in a sheath. Hold the handle close to the ax head, which is to be tilted away from the body. Place the ax on the table, and have each boy demonstrate the proper method of carrying it for requirement 7a.

Explain that the ax should be carried facing

backward in a backpack with the sheath on. Demonstrate this for the boys.

Passing the Hand Ax. Demonstrate this with the senior guide while you explain the proper way to pass the hand ax: Grasp the handle close to the head with the handle pointed away from you and the blade tilted to the side. If the ax is being passed with the right hand, it should be received by the other person's left hand so the ax blade is always away from the bodies of both persons. The person receiving the ax says, "Thank you," and the person giving it says, "You're welcome."

Have each boy demonstrate this skill one at a time for you or the senior guide for requirement 6a.

Carrying a Long-Handled Ax. Demonstrate the correct way to carry a long-handled ax or any long-handled tool: Carry the ax sheathed. Grasp the handle close to the head. Keep the blade away from the body. All long-handled tools should also be grasped on the handle near the head, with any projections facing away from the body. Have each boy demonstrate this skill one at a time for you or the senior guide for requirement 7d.

Passing a Long-Handled Ax. Demonstrate this with the senior guide while you explain the proper way to pass the long-handled ax: Grasp

the handle about two handholds below the knob. Pass the ax with the blade away from you and away from the one to whom you are passing it. The receiver grasps the handle just above the passer's hand. If passing from the left hand, it should be received with the right hand. The person receiving the ax says, "Thank you," and the person giving it says, "You're welcome."

Have each boy demonstrate this skill one at a time for you or the senior guide for requirement 6d.

Sharpening a Pocketknife. Demonstrate how to sharpen a pocketknife. Make sure you wear gloves.

To sharpen the blade, hold the handle in your right hand. Use a clockwise circular motion and apply a steady pressure with the whetstone on the blade with the fingertips of the left hand as you push away. Keep the angle constant. Keep the stone wet. Rock particles on the blade will show the angle you are obtaining. Do not drag the blade toward you with pressure. This will produce burrs. Reduce the pressure for a finer edge. Work counterclockwise on the other side.

Allow the boys to practice sharpening the knife and demonstrate it for you for requirement 8.

Advancement

Be sure the boys have completed requirement 8 and the parts of requirements 6 and 7 that were

covered in the lesson. Sign off on the requirements.



Tool Craft

Objectives

1. The boys will be able to explain how tools should be stored.
2. The boys will be able to explain what tools are inappropriate for use in Royal Rangers.

Materials

- Merit Answer Guide
- Long-handled ax and other long-handled tools
- Hand ax with sheath
- Bow saw
- One example of each tool in requirement 2
- Table to hold all the tools
- Tool craft area set up outside or in the room
- "Tool Craft Area" sign
- Tool Craft Safety cards, if you are distributing these tonight

Preliminary Information

All tools should be safely stored in a locked cabinet or building until needed. At the campsite they should be stored in a tool craft area. All tools should be properly sheathed. Sheaths should be removed only when the tool is in use. Afterward,

it should be sheathed and returned to its proper storage area. If time permits, show the boys where the tools are stored at the church.

Tool safety is choosing the right tool for the job.

To Make

A chair	Folding handsaw
Lodge poles	Bow saw or ax
A crisscross or a council fire	Bow saw and folding handsaw
Kindling	Hand ax
Fuel	Bow saw or long-handled ax
Tinder	Knife and hand ax

You Would Use a

Before the boys arrive, place all the tools in the tool craft area. Display the sign in a promi-

nent place.

Lesson

Laws of Tool Safety. Ask the boys to list the three safety rules and the statements for each rule. Use the transparency of MLR 3a "Three Laws of Tool Safety and Saw Parts," if needed.

Storing Tools. Tell the boys that one of the most important things to remember about tools is how to store and use them in a safe place. At the campsite, this place is the tool craft area. Explain

the rules for the tool craft area, and have the boys fill in the answer to requirement 9, listing how tools should be stored.

Tool Craft Area in the Campsite

- When chopping wood, create a specific tool craft area.
- Choose a site that is fairly close to the fire and clear of obstructions (not only on the ground but also overhead where something could catch the ax as you swing).
- Make a circle that is at least two meters (six feet) in radius (or at least three ax lengths).
- Rope off this area and clearly mark it.
- Make sure that everyone knows where the chopping area is.
- No loose clothing should be taken into the area. No one should enter the area without strong shoes or boots.
- Enter the area only after checking that it is safe to enter.

Sheaths. If you don't have a sheath for your tool, you can use these ideas to keep others safe.

- Use a sliced garden hose or tough plastic with twine as a simple sheath.
- Bury the blade of an ax in a designated log or

chopping block in the tool craft area. Do this only in the designated area.

- Tie the blade between two pieces of wood.
- Hang the tool in a safe place in the tool craft area where it cannot be bumped into. Leaning an ax against the side of a tent, chair, log, or tree is not a safe idea.

Inappropriate Tools for Royal Rangers.

Explain that the following tools are inappropriate for use in Royal Rangers: long-handled and three-quarter axes. Use hand axes only. The Dayton-style ax head should not be used. This ax head does not have a hooked heel or toe. The Michigan head is the most widely used head. A double-headed ax should never be used by any Royal Ranger. Machetes, swords, and other long-bladed knives should not be used. Sheathed knives are to be used only at FCF functions or events.

Ask the boys to fill in the answer to requirement 9, listing inappropriate tools for use in Royal Rangers.

Knives to Use. What kind of knife should boys and leaders use? Pocketknives are the only recognized knives for use in the Royal Rangers program.

Advancement

Check to see that all the requirements for this merit have been completed. Use the Recreation

Time, if needed, to be sure the boys have successfully demonstrated the requirements.



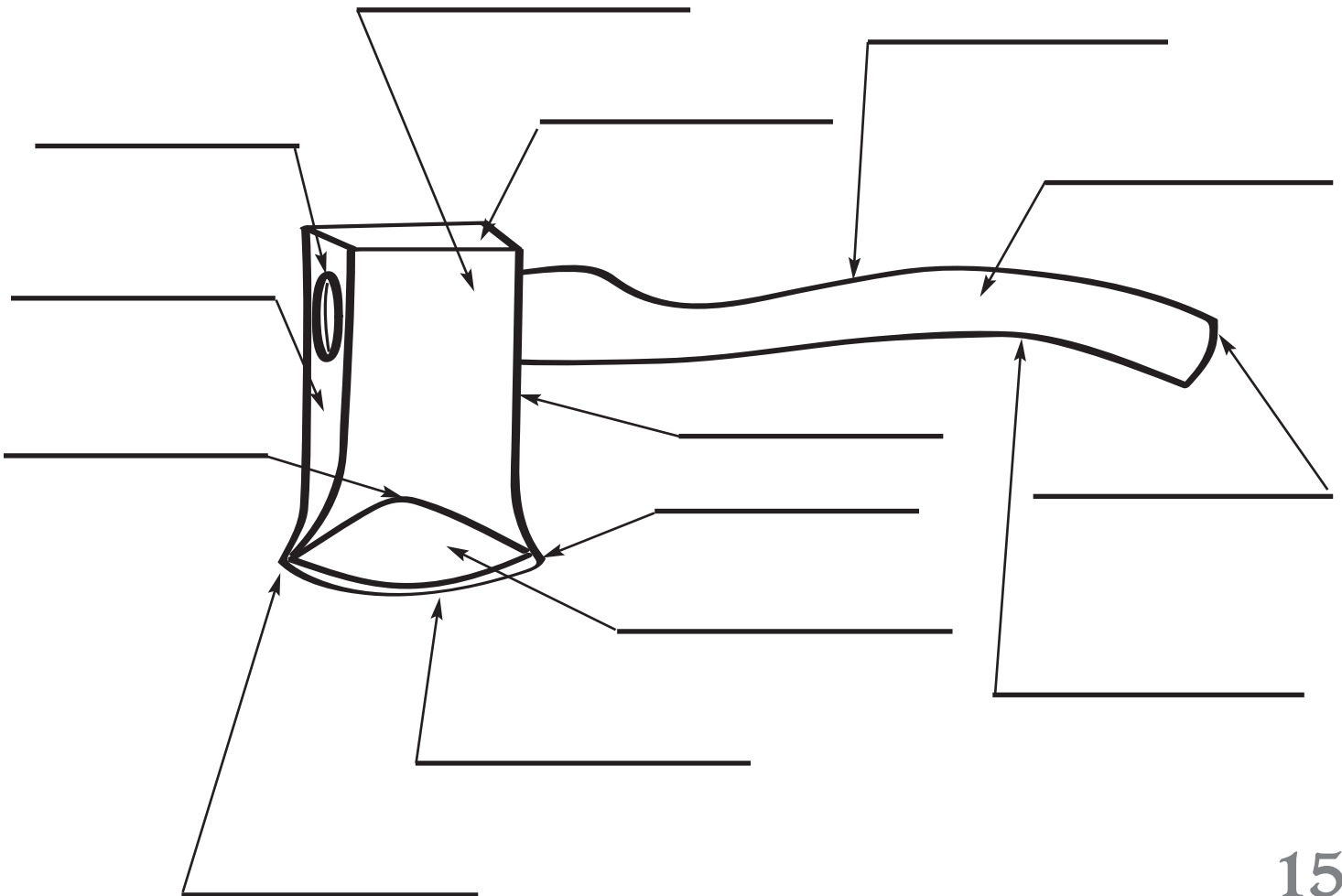
Three Laws of Tool Safety and Ax Parts

Three Laws of Tool Safety

1. _____

2. _____

3. _____





MLR 2

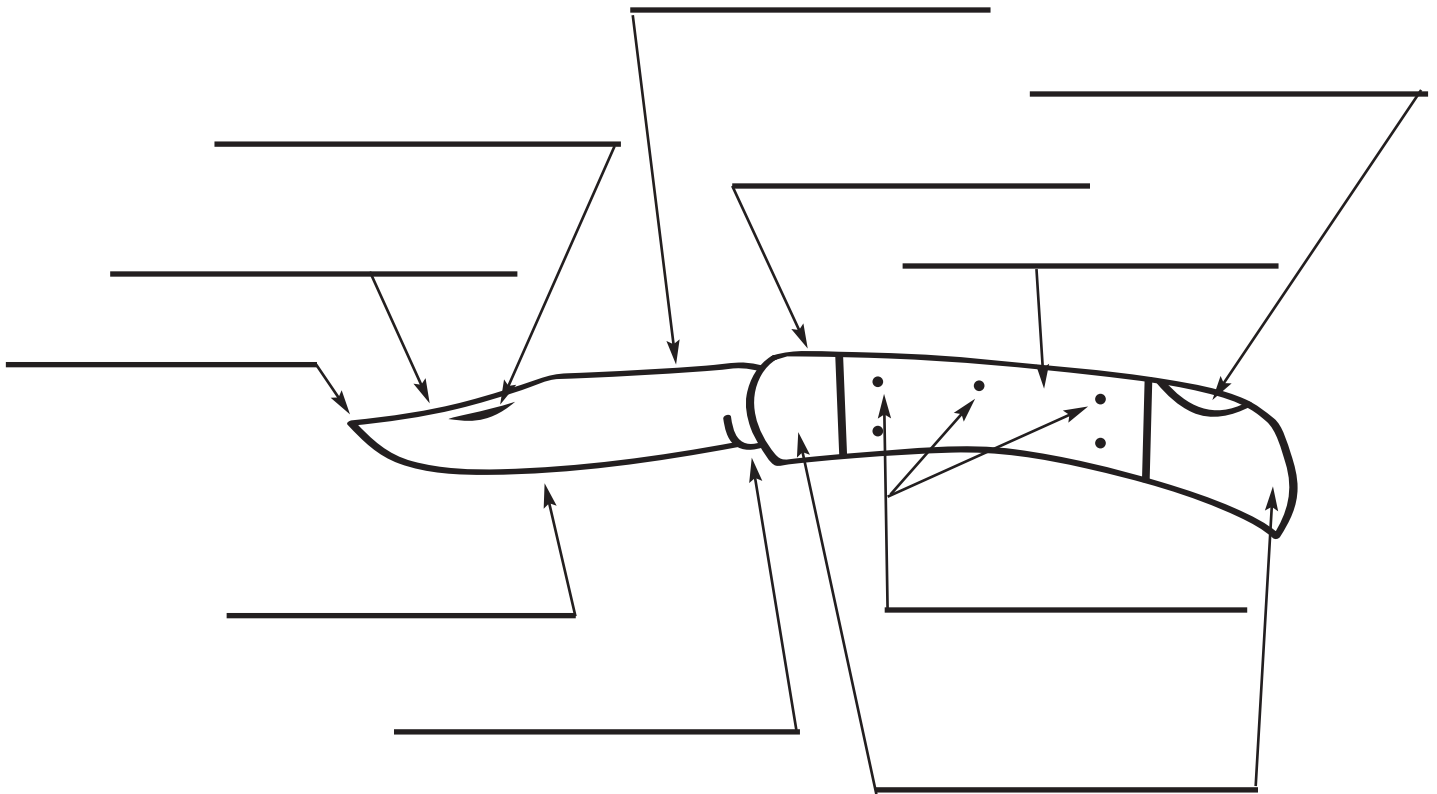
Three Laws of Tool Safety and Knife Parts

Three Laws of Tools Safety

1. Common Sense: _____

2. Courtesy: _____

3. Safety: _____





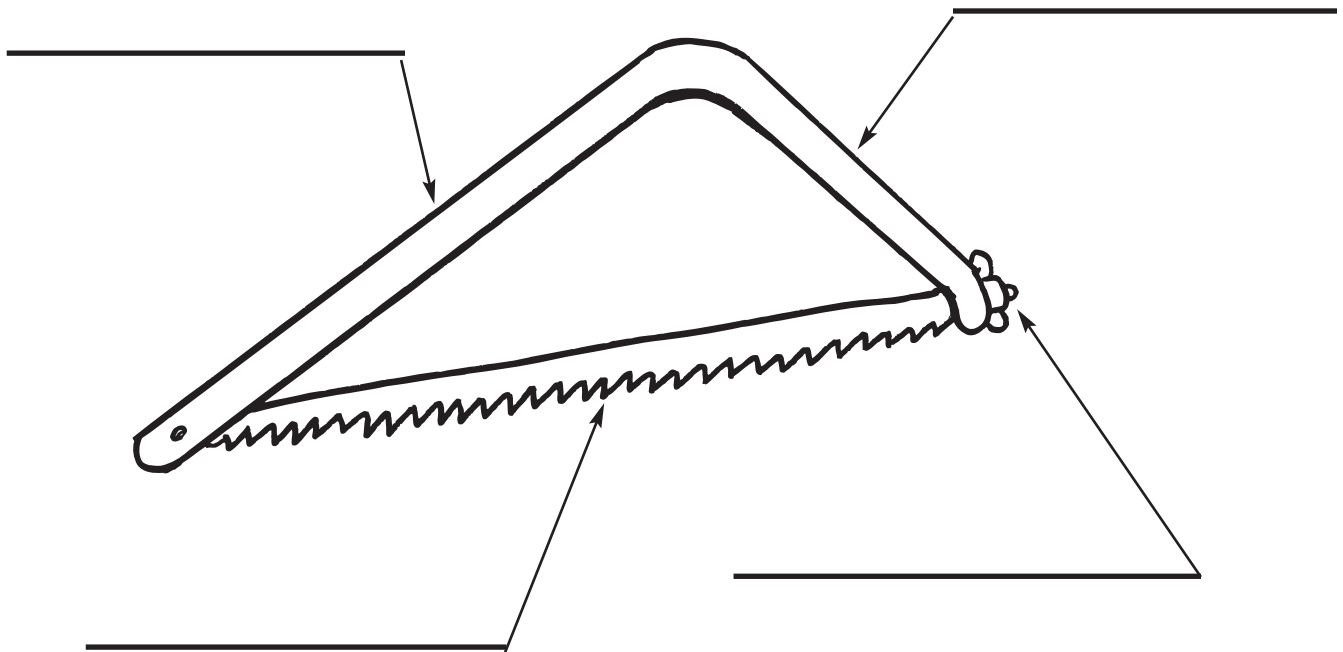
Three Laws of Tool Safety and Saw Parts

Three Laws of Tool Safety

1. Common Sense: Always handle all tools properly, never play with them, and never use them in a manner that the tool was not designed for.

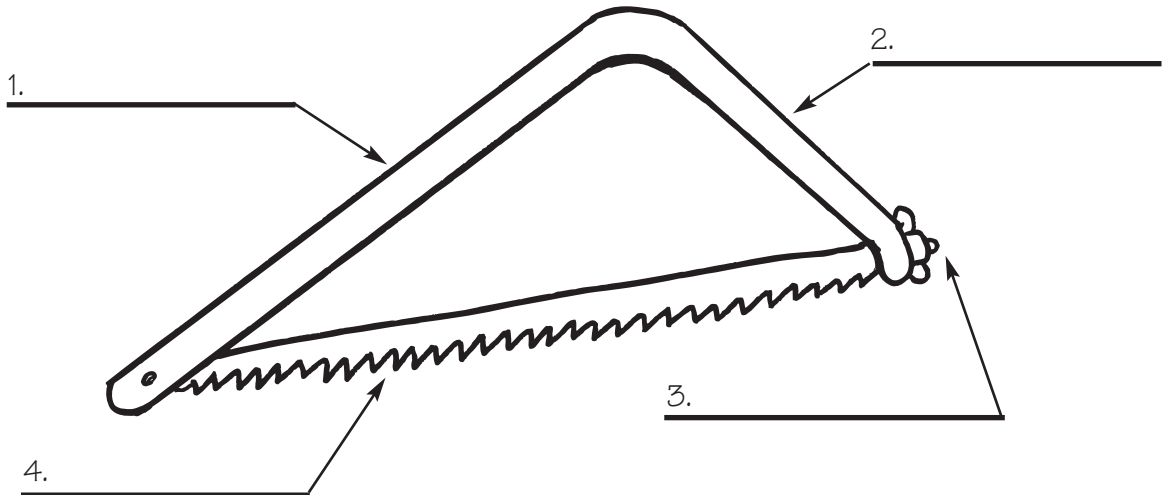
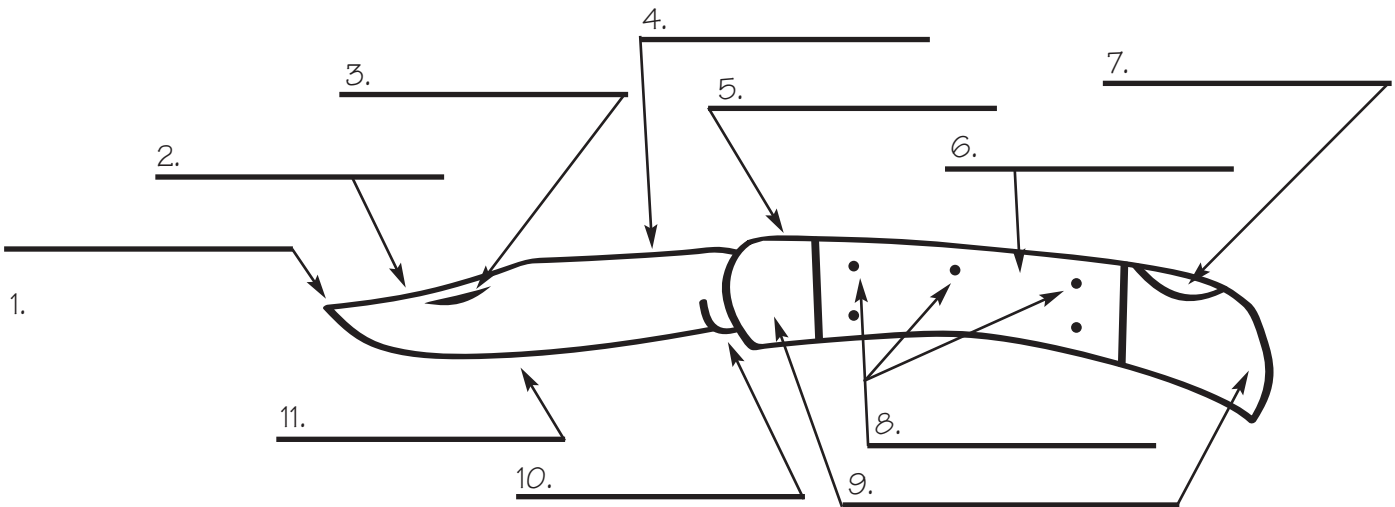
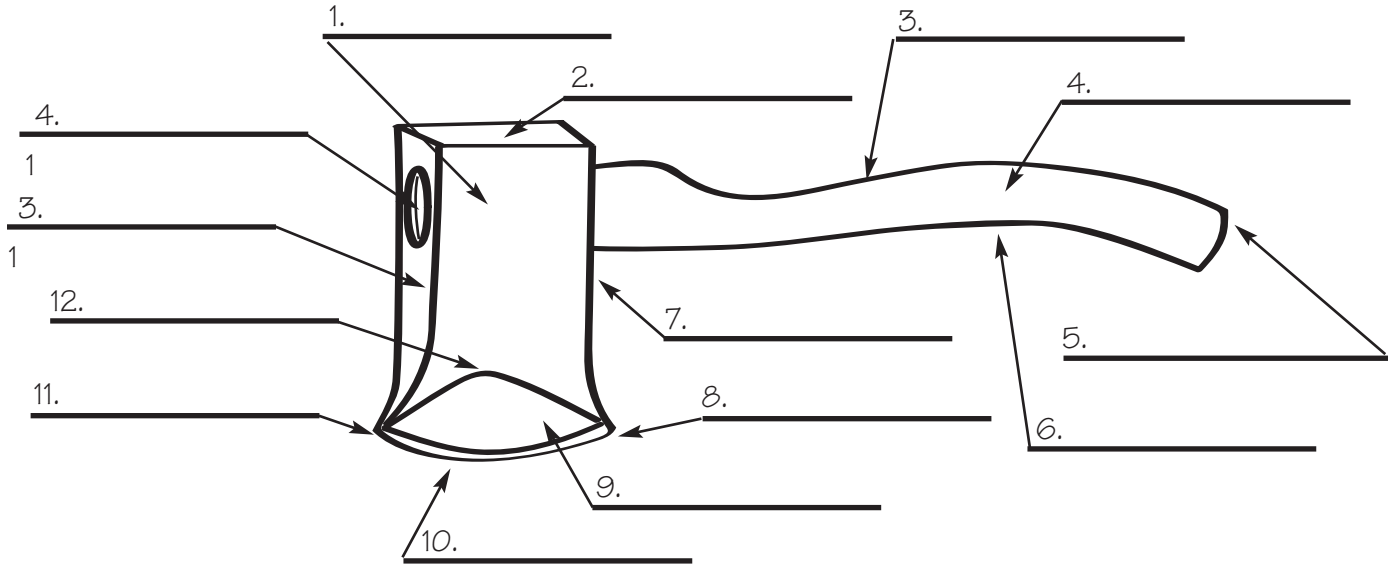
2. Courtesy: Always say “thank you” when receiving a tool and “you’re welcome” when giving a tool to another person.

3. Safety: Choose the right tool for the right job.





Name It Game





Tool Craft Merit

Note: This merit is required to earn the Gold Medal of Achievement.

1. List ten commonly used hand tools.

2. List five hand tools used on a campout.

3. List and explain the three laws of tool safety.

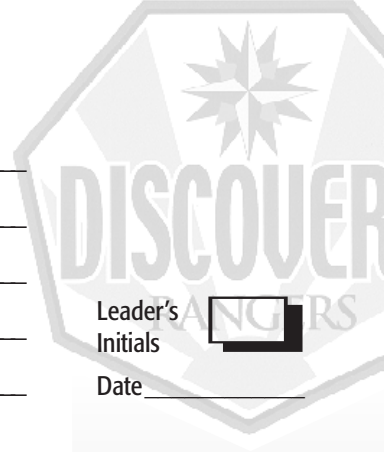
Law 1: _____

Law 2: _____

Law 3: _____

4. List and identify the parts of each of the following tools:

- a. Hand ax (14)
- b. Pocketknife (11)
- c. Bow saw (4)



Leader's Initials

Date _____

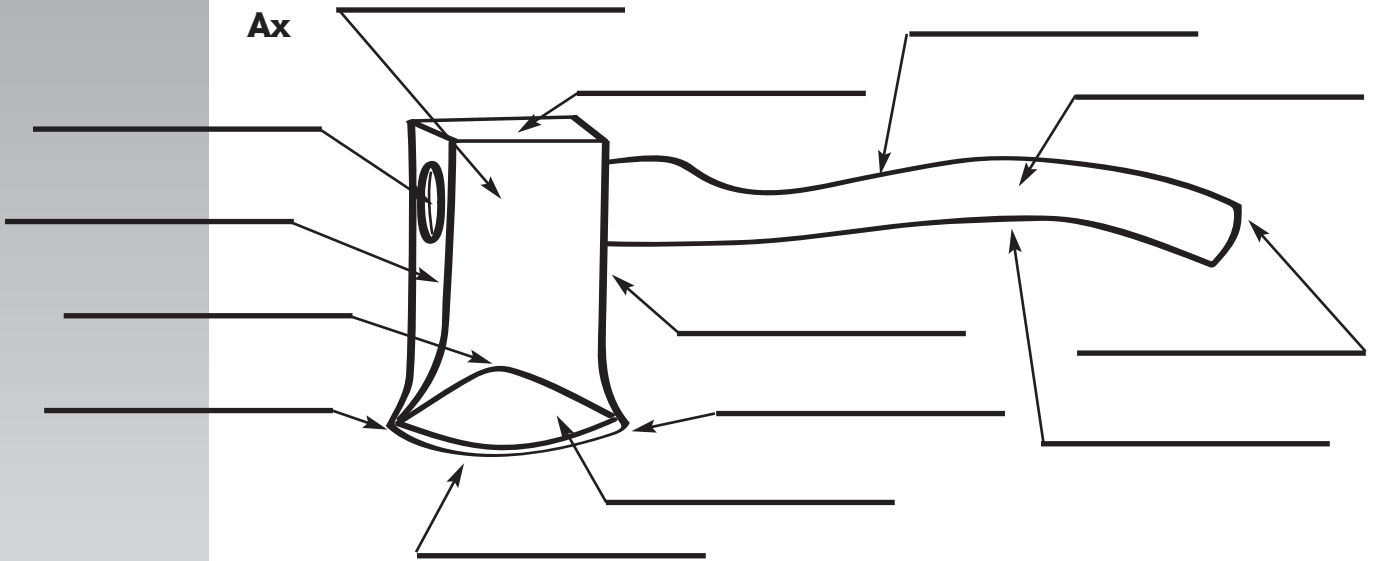
Leader's Initials

Date _____

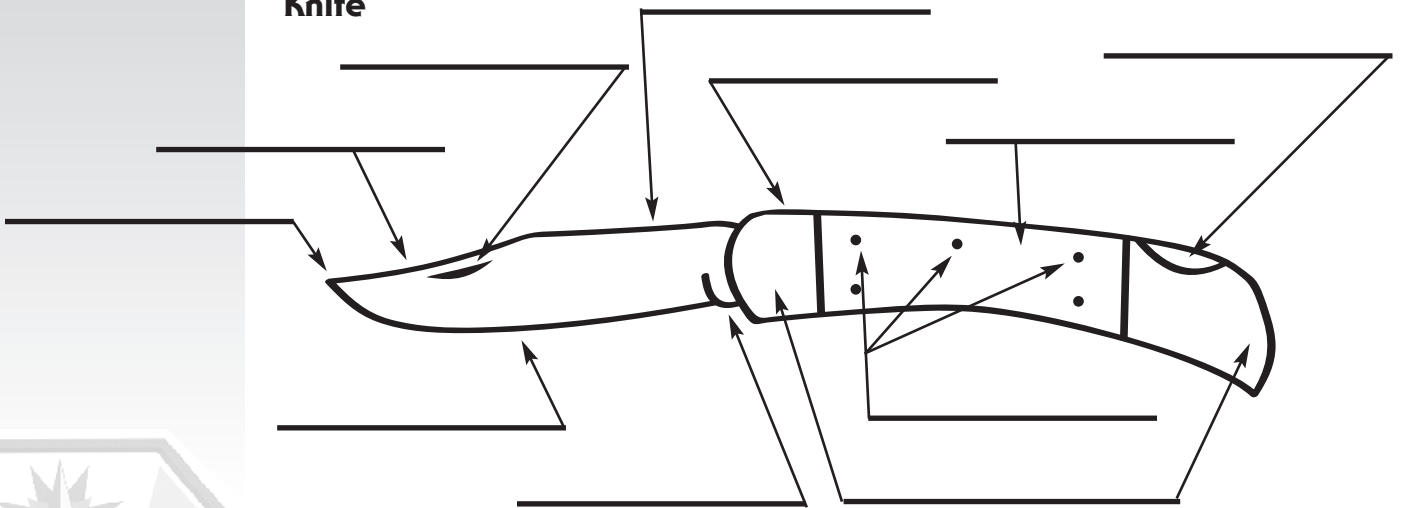
Leader's Initials

Date _____

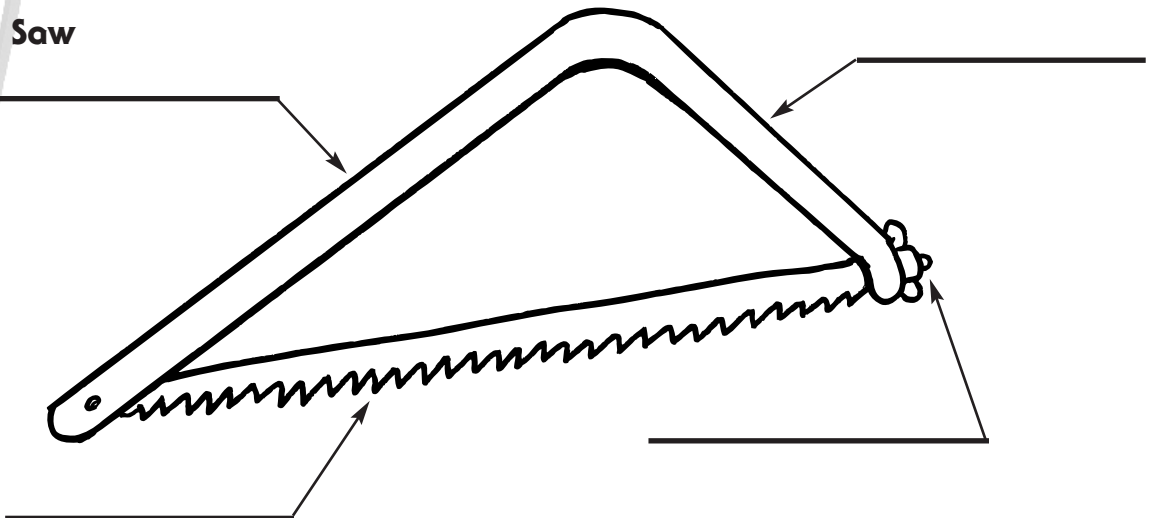
Ax



Knife



Saw



Leader's Initials
 Date _____

W-2

5. Demonstrate the proper way to open and close a pocketknife.

6. Demonstrate how to properly pass a:

- a. Hand ax
- b. Knife
- c. Bow saw
- d. Long-handled ax and other long-handled tools

7. Demonstrate how to properly carry a:

- a. Hand ax
- b. Knife
- c. Bow saw
- d. Long-handled ax and other long-handled tools

8. Demonstrate how to properly sharpen a pocketknife. (Skills for sharpening an ax are demonstrated in the Knife and Hawk Merit.)

9. Explain how tools should be stored and what tools are inappropriate for use for Royal Rangers.

Leader's Initials
Date _____

Leader's Initials
Date _____

Leader's Initials
Date _____

Leader's Initials
Date _____

Leader's Initials
Date _____

