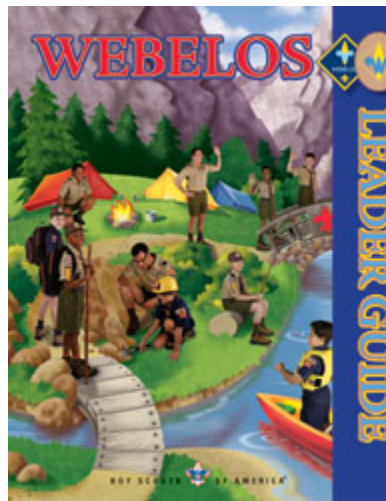


Webelos Activity Badge

Craftsman



Prepared By:

Rich Smith

Cubmaster Pack 133

May 10, 2007

The information in this Activity Badge Outline has come from many sources, including the Internet, BALOO'S BUGLE, the Pow Wow books listed on MacScouter, and some items created especially for this activity by me, often following the requirements of the Webelos Scout book.

Where possible, I have tried to give credit to the source of the material. However, often the same material appears on numerous sites or in numerous sources. My name only appears on worksheets or activities that I developed. If no reference or credit appears on an item, it simply means that it is available from multiple sources or that the source is unknown. I am in no way attempting to take credit for the fine work performed by other Scouters. I have only tried to assemble the available information that I have collected over the years, and supplement it with my own work when the Webelos requirements changed or when a specific need was not met by the available resources. Other Scouters have gone before me in this endeavor, such as Barb Stephens and R. Gary Hendra, and to them I offer my thanks.

Please use this information in the spirit that it was intended – to make the job of the Webelos Leader easier by providing a format to follow with the necessary resources to fulfill the requirements of the Activity Badge, while providing the Scouts with fun and interesting activities!

Rich Smith
Cubmaster
Pack 133
Coatesville, PA



Craftsman

Do these:

1. Explain how to safely handle the tools that you will use for this activity badge.
2. With adult supervision and using hand tools, construct two different wooden objects you and your Webelos Den Leader agree on, such as the items listed below. Use a coping saw or jigsaw for these projects. Put them together with glue, nails, or screws. Paint or stain them.

Book rack	Napkin holder
Shelf	Animal cutouts
Bulletin board	Garden tool rack
Weather vane	Lid holder
Tie rack	Mailbox
Letter holder	Birdhouse
Notepad holder	Desk nameplate
Toolbox	Letter, Bill, and Pencil holder
Towel rack	Bread box
Recipe holder	Key rack
Lamp stand	Measuring cup rack
Kitchen knife rack	Measuring spoon rack
Kitchen utensil rack	

3. Make a display stand, or box to be used to display a model or an award. Or make a frame for a photo or painting. Use suitable material.
4. Make four useful items using materials other than wood that you and your Webelos Den Leader agree on, such as clay, plastic, leather, metal, paper, rubber, or rope. These should be challenging items and must involve several operations.

Craftsman Signoff

Requirement							
Do these requirements:							
1. Explain how to safely handle the tools that you will use for this activity badge.							
2. With adult supervision, construct two different wooden objects using a coping saw or jigsaw. Put them together with glue, nails, or screws, and paint or stain them.							
3. Make a display stand, or box to be used to display a model or an award. Or make a frame for a photo or painting.							
4. Make four useful items using materials other than wood that are challenging and involve several operations.							
a. Clay Project							
b. Plastic Project							
c. Leather Project							
d. Metal Project							
e. Paper Project							
f. Rubber Project							
g. Rope Project							

Craftsman Activity Badge

1. Premeeting Activities
 - a. Craftsman Word Search *(Handout)*
 - b. Craftsman Word Search 2 *(Handout)*
 - c. Tool Crossword *(Handout)*
 - d. Tool Man Crossword *(Handout)*
 - e. Tool Identification *(Handout)*
 - f. The Upset Toolbox *(Handout)*
 - g. Handyman Crossword *(Handout)*
2. Introduction
 - a. Background Information
 - b. Ideas for Den Activities
3. Using Tools Safely p 199 *(Requirement 1)*
 - a. Tool Safety *(Handout)*
 - b. Car maintenance *(Handout)*
4. Woodworking Projects p 201 *(Requirement 2)*
 - a. Picture Frame House *(Handout)*
 - b. Book Rack *(Handout)*
 - c. Book Trough *(Handout)*
 - d. Mountain Cabin Bookends *(Handout)*
5. Make a display stand for a model p 205 *(Requirement 3)*
6. Make four useful items *(Requirement 4)*
 - a. Clay p 208
 - b. Plastic
 - c. Leather p 205 *(Handouts)*
 - d. Metal *(Handouts)*
 - e. Paper
 - f. Rubber
 - g. Rope

Rich Smith
6/11/2007

How To Use These Resources

By Rich Smith

1. Review the requirements of the Craftsman Activity Badge and become familiar with the requirements. They are straightforward. There are two main ideas of this badge – **knowing** how to use tools safely, and **using** them to make seven projects. Two of the projects will be made of wood, and four out of other materials such as clay, plastic, leather, metal, paper, rubber or rope. The seventh project is a display stand, which usually is also made of wood.
2. Always try the project yourself to make sure there are **no surprises**, and also have a finished project on hand to show what the final product looks like.
3. It is almost impossible to make seven projects in one Den Meeting. It is helpful to spread this badge out over time, and use part of many Den Meetings for projects. Careful planning will allow the boys to make nice holiday presents, or Mother's Day or Father's Day gifts.
4. Many national chain stores, like Home Depot, have project days on Saturday. They supply the project material, tools, and supervision. Check your local region to see if this resource is available, and use it.
5. This activity badge has several things in common with the Handyman Badge, which has a requirement to make a wooden stool. Use the two badges to complement one another, rather than duplicate activities.
6. While working on the Craftsman Activity Badge, start each Den Meeting with a Gathering Activity from the resource list. It will keep the boys occupied and lead into the Craftsman activities.
7. Introduce the Activity Badge using the information from the Introduction to the Craftsman Activity Badge resource, combined with your personal experience.
8. Break up the Den Meeting with a game from the Craftsman Games resources or with another of the Gathering Activities. This will keep the boys on task, and games like the nail driving or saw relays will teach the boys how to use tools.
9. I have found it interesting to introduce the convenience of cordless drills and screwdrivers by first letting the boys drill holes and drive screws the **old way**, and then let them use the new tools. ***This really makes an impression!***
10. Use a Craftsman related Opening or Closing from this packet at Den Meetings when appropriate.
11. If possible, take a Den trip to a cabinet maker's shop, a furniture factory, a lumberyard, or a saw mill or to learn wood and woodworking. Make sure the parents are involved, and **plan ahead**.
12. Finish off the month by learning a song or a skit with a Craftsman theme for the Pack Meeting. Choose from the resources contained at the back of this packet or find one from your other resources that better suits your needs or interests.

Introduction to the Craftsman Activity Badge

By Rich Smith

A craftsman is someone who can make useful things that not only serve a function, but are pleasing to the eye. Such projects could include wooden objects such as furniture, leather products such as belts, pocketbooks, or purses, or metal objects such as a lantern. Today these items can be bought at a store, but there was a time not so long ago when people had to make them for themselves, or rely on someone nearby to make them.

There are still craftsman at work today, and they can be seen at home shows, craft fairs, and in small shops. I have stood in awe and watched a blacksmith make horseshoes and games at amusement parks. I have visited the Corning Glass Works in Corning, NY and watched a glassblower make fine, decorative glassware.

This activity badge is a very practical one, for it exposes the boys to a level of crafts that is more involved than what they have tried in Tigers, Wolves or Bears. The requirements include projects made of wood as well as other materials such as leather, tin, clay, or paper, among others. This broad exposure will hopefully develop interests that could lead to a lifelong hobby. It certainly will build their confidence as they see the work of their hands come to completion!

As you embark on this activity badge, bear in mind that your boys will possess a range of skills and abilities. Some will be adept at hammering and sawing, while others will need a guiding hand and a watchful eye at all times! Plan to have enough parents to help with the projects, both in gathering the materials and in doing the projects. Start each session with a discussion of the tools that will be used, and a demonstration of to safely use them. Then “practice” with the tools on scrap wood, and use some of the games in this packet such as the hammer or saw relays to get the boys used to handling the tools.

Do not feel that all of the projects have to be done in the Den setting. Many home improvement and craft stores have “Project Days” that you can take advantage of. For example, Home Depot has kid seminars on Saturday mornings. They provide the wood, nails, and glue, the plans, the supervision and sometimes even an apron to take home. They also may have a scrap wood pile or a reduced price bin where project material can be obtained. This is a good activity badge to spread out over a long time period, making perhaps one project a month, as well as seasonal projects for holiday gifts. This approach could even allow you to make more than the minimum required number of projects, while retaining the interests of the boys.

Some Suggested Den Activities

From Baloos' Bugle November 2005, 2004, 2002, and 2000

- Visit a furniture factory, lumberyard, saw mill, metal shop or cabinetmaker.
 - Visit a tannery or leather good manufacturer.
 - Invite an expert to give a demonstration on the proper care and use of tools.
 - Have someone with experience demonstrate leather tooling and the use of various leather tools.
 - Have someone give a demonstration of metal work, using tin snips and a vise. Be sure to caution the boys on the sharpness of the edges of the metal.
 - Discuss the proper finishing methods for wood projects; the importance of sanding methods; fillers for holes and scratches; the various types of finishes such as shellac, stain, lacquer, varnish, and enamel, etc.
 - Make a tool chest or a bench hook for sawing.
 - Have a birdhouse building contest.
 - Make a Den knot board (see Webelos Activity Book).
 - Make a tote tray for carrying tools.
 - Have a nail-driving contest. Each boy has a scrap of wood, nails and a hammer. Let them practice driving the nails into the wood straight.
 - List tools needed to complete badge.
 - Tie in with scholar and discuss how education will help in doing crafts and working on the job.
 - Have a birdhouse building contest or select another project.
 - Hold a nail-hammering contest. See who can hammer a nail in the fewest number of strokes.
-
- Put on a skit or sing a song about tools or a craftsman for the Pack Meeting
 - Display your projects at the Pack Meeting and talk about how you made them.

Craftsman Word Search

By Rich Smith

Directions

Find the words in the puzzle that are listed below.

The words are horizontal, vertical, and diagonal, forwards and backwards.

All of the words are associated with the Craftsman Activity Badge!

Put the unused letters in the boxes to find a hidden message!

C O P I N G S A W B E S A F
 P R O J E C T E S C R E W S
 W H A M M E R E B B U R I T
 H O T F R A M E S A F E T Y
 C B O O T L S D F G J H K C
 U B J I G S A W Q M E T A L
 T Y L E D O M D E N S A W A
 T O C U B P R A H S E L M
 I Y O J K W A E N A I L S P
 N A I L S O W P L A S T I C
 G L U E S L O O E H B E A R
 V C N M K F O R D R I L L G
 S D B U I L D W E B E L O S

H I D D E N M E S S A G E

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!

AWL
 BUILD
 CLAY
 CLAMP
 COPINGSAW
 CRAFTSMAN
 CUTTING
 DRILL
 FRAME

GLUE
 HAMMER
 HOBBY
 LEATHER
 JIGSAW
 METAL
 MODEL
 NAILS
 PAPER

PLASTIC
 PROJECT
 ROPE
 RUBBER
 SAFETY
 SCREWS
 SHARP
 TOOLS
 WOOD

Craftsman Word Search

By Rich Smith

Directions

Find the words in the puzzle that are listed below.

The words are horizontal, vertical, and diagonal, forwards and backwards.

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Put the unused letters in the boxes to find a hidden message!

C O P I N G S A W B E S A F
P R O J E C T E S C R E W S
W H A M M E R E B B U R I T
H O T F R A M E S A F E T Y
C B O O T L S H C
U B J I G S A W M E T A L
T Y L E D O M A W A
T O P R A H S E L M
I Y O A E N A I L S P
N A I L S W P L A S T I C
G L U E S O O E
C O R D R I L L
B U I L D

H I D D E N M E S S A G E

B E S A F E W I T H T O O L S !

AWL
BUILD
CLAY
CLAMP
COPINGSAW
CRAFTSMAN
CUTTING
DRILL
FRAME

GLUE
HAMMER
HOBBY
LEATHER
JIGSAW
METAL
MODEL
NAILS
PAPER

PLASTIC
PROJECT
ROPE
RUBBER
SAFETY
SCREWS
SHARP
TOOLS
WOOD



Craftsman Word Search 2



Modified from BSA Troop 127

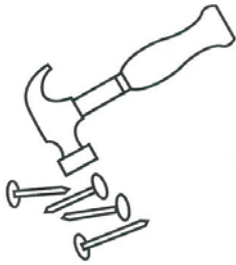
Directions

Find the words in the puzzle that are listed below.

The words are horizontal, vertical, and diagonal, forwards and backwards.

All of the words are associated with tools and Craftsman!

Put the unused letters in the boxes to find a secret word!



L A E R E T N E P R A C
 I L E A T H E R C O I U
 C E I E R S L O O T L T
 N D Y R N A I L S O M E
 E O T A D A H A M M E R
 P M E U I C L A Y W A S
 E F F Q G P A E F I N K
 G L A S S T C E J O R P
 S T S S C N I R M O I A
 E P O R R I N O O N X P
 G L A Z E A G D E O A E
 N D O O W P R E B B U R



H I D D E N M E S S A G E

--	--	--	--	--	--	--	--

BOX
 CARPENTER
 CLAY
 CUT
 DIGS
 DOOR
 DRILL
 GLASS
 GLAZE

HAMMER
 KNIFE
 LACING
 LEATHER
 MODEL
 MOTOR
 NAILS
 PAINT
 PAPER

PEGS
 PENCIL
 PINE
 PLASTIC
 POLE
 PROJECT
 REAL
 ROD
 ROPE

RUBBER
 SAFETY
 SAW
 SCREW
 SOME
 SQUARE
 TOOLS
 WOOD





Craftsman Word Search 2



Modified from BSA Troop 127

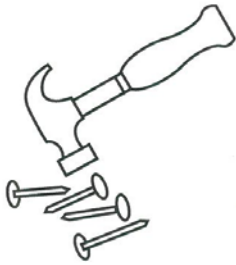
Directions

Find the words in the puzzle that are listed below.

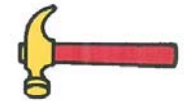
The words are horizontal, vertical, and diagonal, forwards and backwards.

All of the words are associated with tools and Craftsman!

Put the unused letters in the boxes to find a secret word!



L A E R E T N E P R A C
 I L E A T H E R C O I U
 C E I E R S L O O T L T
 N D Y R N A I L S O M E
 E O T A D A H A M M E R
 P M E U I C L A Y W A S
 E F F Q G P A E F I N K
 G L A S S T C E J O R P
 S T S S C N I R M O I A
 E P O R R I N O O N X P
 G L A Z E A G D E O A E
 N D O O W P R E B B U R



H I D D E N M E S S A G E

C R A F T S M A N

BOX
 CARPENTER
 CLAY
 CUT
 DIGS
 DOOR
 DRILL
 GLASS
 GLAZE

HAMMER
 KNIFE
 LACING
 LEATHER
 MODEL
 MOTOR
 NAILS
 PAINT
 PAPER

PEGS
 PENCIL
 PINE
 PLASTIC
 POLE
 PROJECT
 REAL
 ROD
 ROPE

RUBBER
 SAFETY
 SAW
 SCREW
 SOME
 SQUARE
 TOOLS
 WOOD



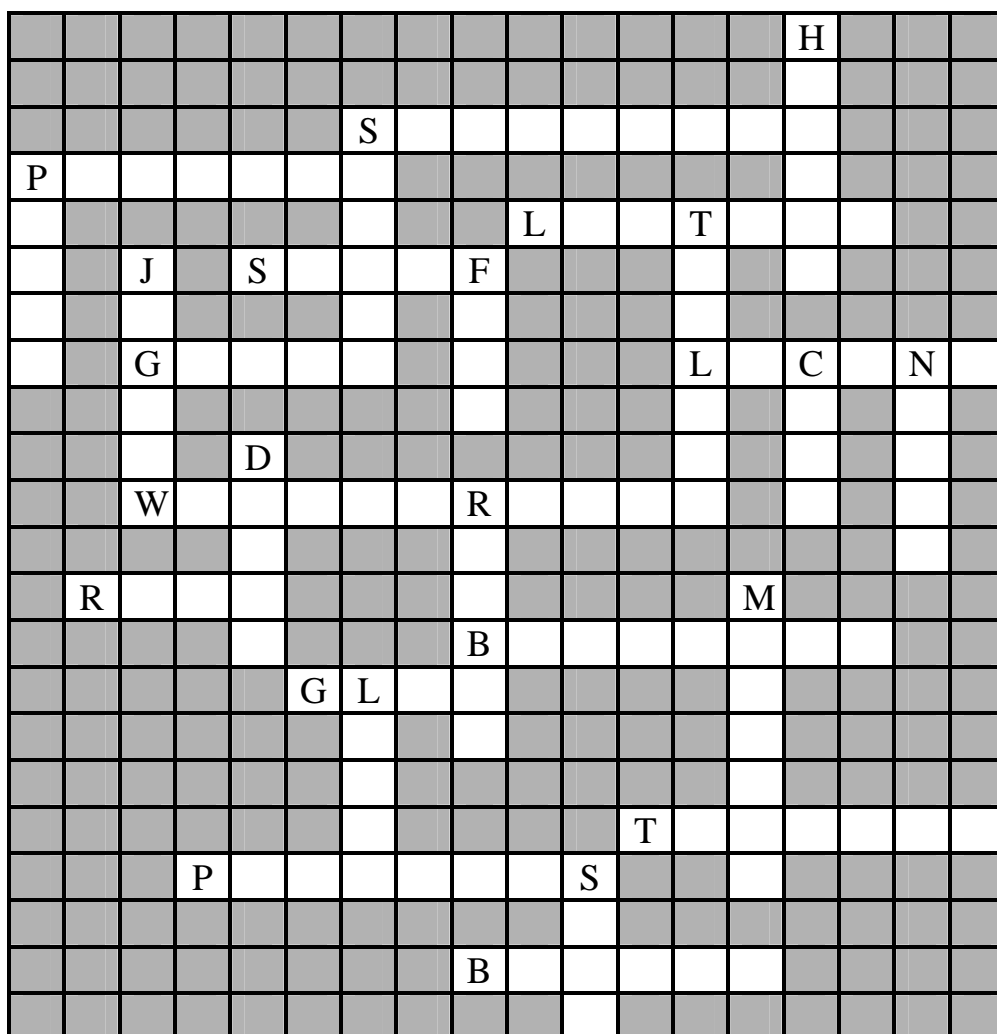
Tool Crossword

By Barb Stephens

Place the following words into the crossword spaces above.

The first letter of each word is already filled in for you!

- | | | | |
|---------|-------------|-----------|----------|
| Blades | Bookrack | Clay | Dowel |
| Fire | Glass | Glue | Hammer |
| Jigsaw | Lacing | Leather | Level |
| Mailbox | Nails | Paint | Phillips |
| Plastic | Rope | Rubber | Screws |
| Shelf | Slab | Styrofoam | Tooling |
| Toolbag | Woodworking | | |



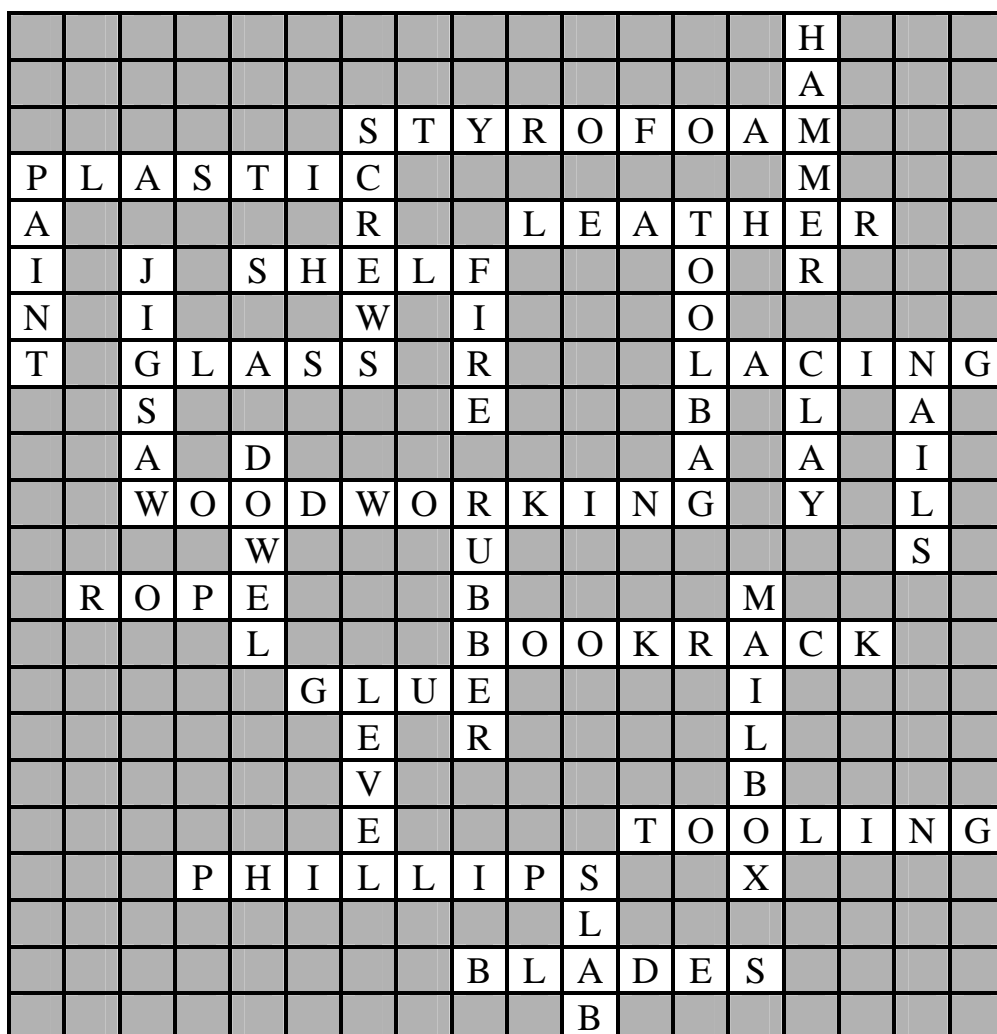
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| Plastic | Rope | Rubber | Screws |
| Shelf | Slab | Styrofoam | Tooling |
| Toolbag | Woodworking | | |



Tool Man Crossword

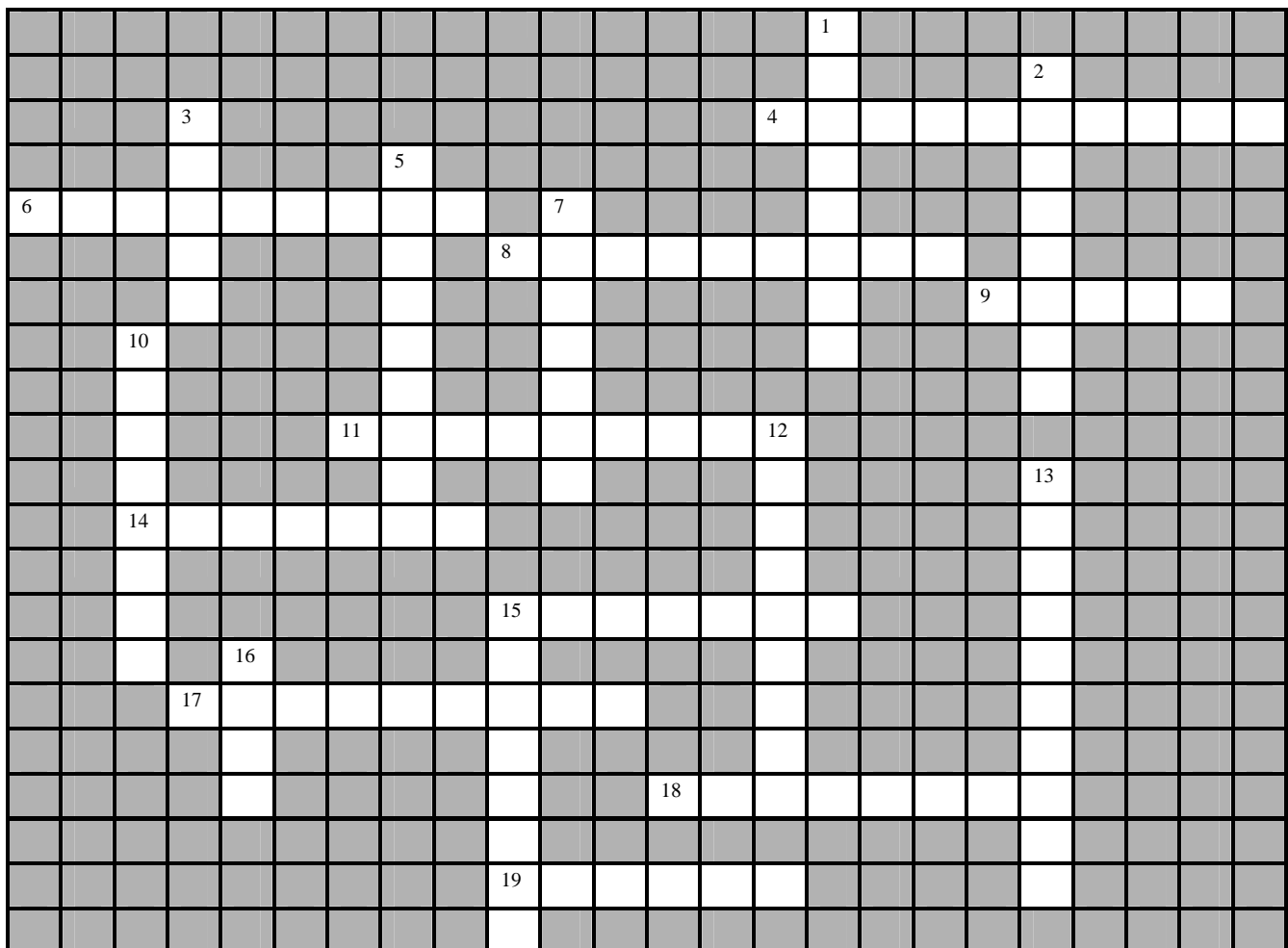
By Barb Stephens

Across

4. Bright lights on the front of a car.
6. Cleaners that are _____ are often marked with a skull.
8. When it burns out, the ____ ____ must be replaced in a lamp.
9. The ____ bulb in a turn signal can burn out.
11. One light found on the back of a car is a ____.
14. If a bike chain becomes too loose, you ____ it.
15. An area where tools are stored is a ____ area.
17. To keep the grass cut, use a ____ .
18. Keep household _____ in a safe storage area.
19. The seat on a bike or horse is called a _____.

Down

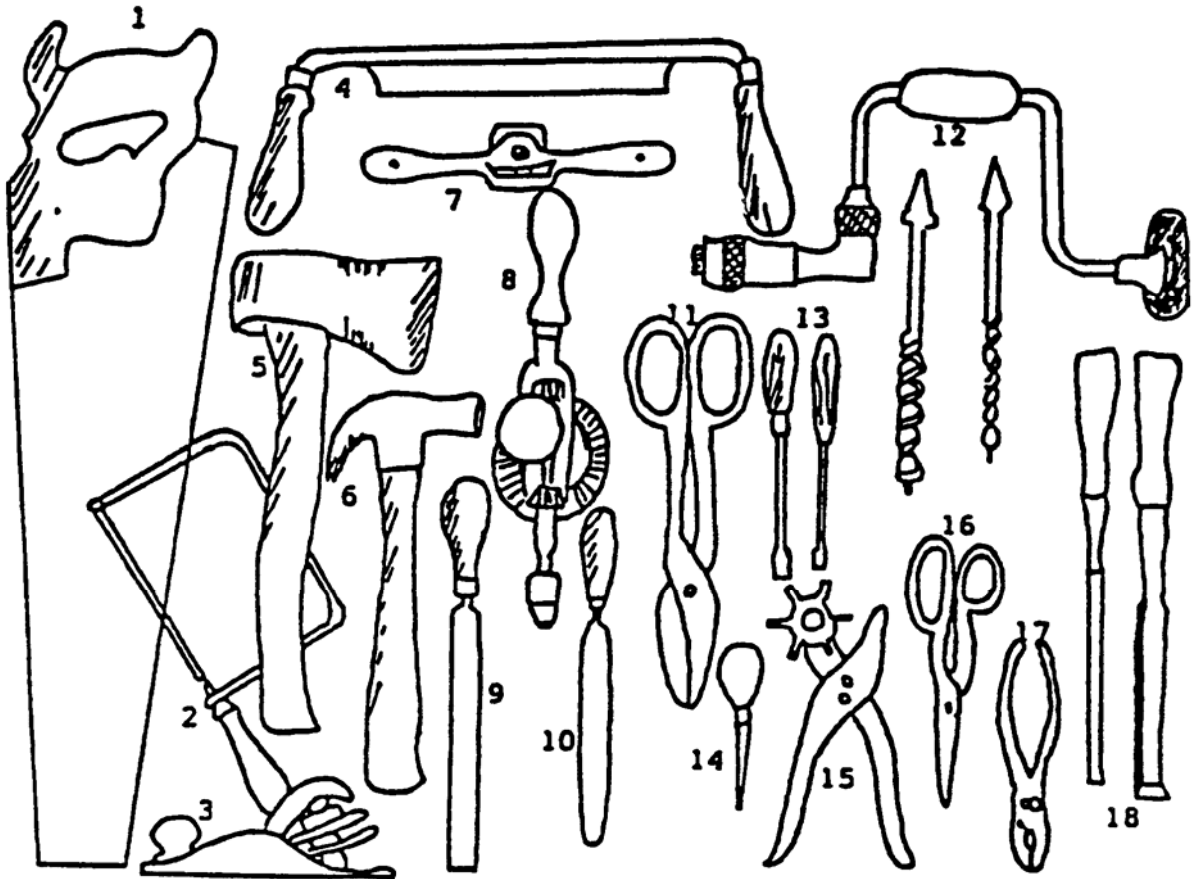
1. Air inside a tire exerts _____.
2. Use the ____ ____ to check the oil in a car.
3. The extra tire in a car is called the ____.
5. When you put oil on your bike chain, you _____ it.
7. A two wheeled vehicle a Scout can ride is a _____.
10. A nail on the road may cause a _____.
12. You need a _____ to check tire pressure.
13. To add air to a tire, use a pump or a _____.
15. This "horse" is helpful when cutting boards.
16. On Saturday, many people _____ their car.



Tool Identification

Santa Clara Council Pow Wow 1999

Pictured below are some of the basic tools Webelos Scouts may use when working with wood, leather or tin. See how many you can name.



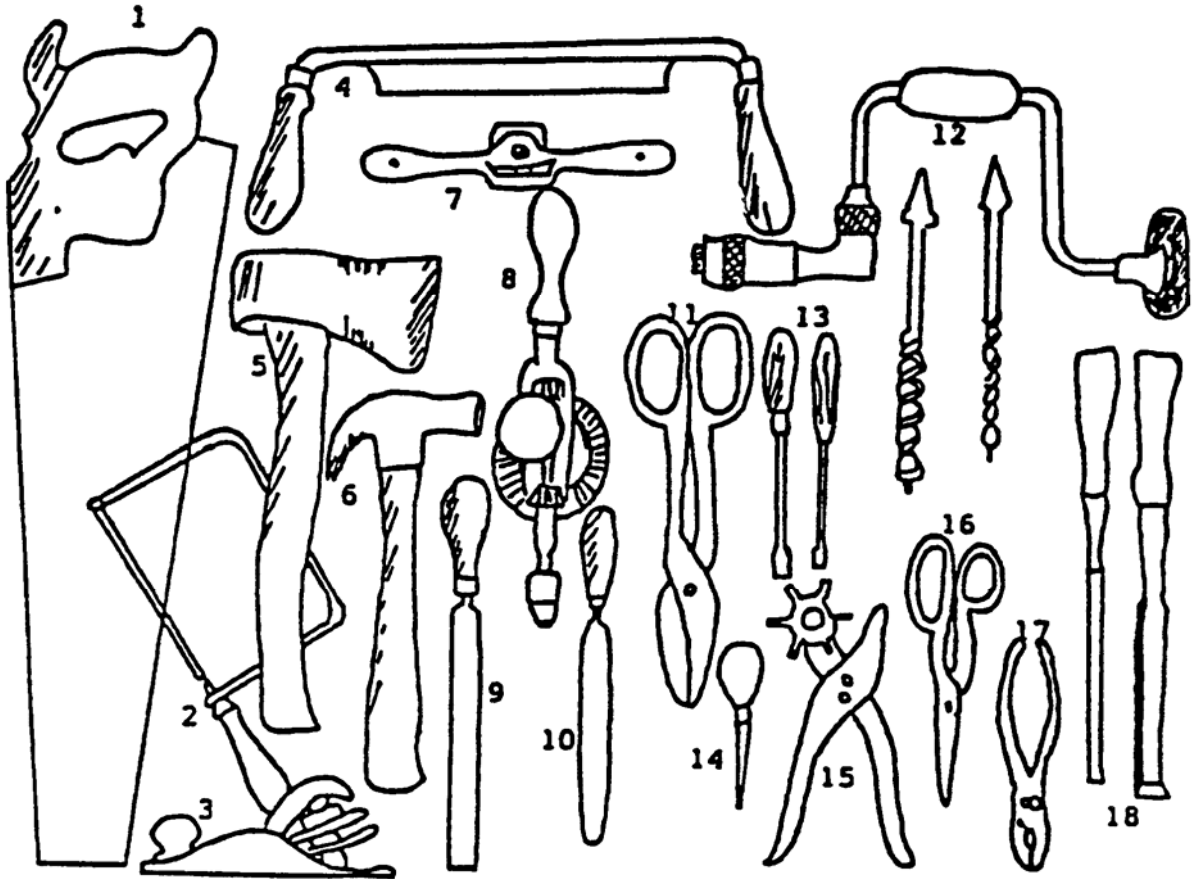
1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____

10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____

Tool Identification

Santa Clara Council Pow Wow 1999

Pictured below are some of the basic tools Webelos Scouts may use when working with wood, leather or tin. See how many you can name.



Answers

1. Saw
2. Coping Saw
3. Plane
4. Drawknife
5. Hand Ax
6. Claw Hammer
7. Spokeshave
8. Hand Drill
9. File
10. Half-round File
11. Tin Snips
12. Brace and Bits
13. Screwdrivers.
14. Awl
15. Leather Punch
16. Shears
17. Pliers (slip-joint)
18. Chisels

The Upset Toolbox

From Circle Ten Pow Wow 1998

Oops! The toolbox has been upset and all of the tools fell out!

This list is a group of tools with the letters scrambled.

Can you straighten them out?

1. urel _____
2. aws _____
3. lnai _____
4. memhar _____
5. elrwot _____
6. alnep _____
7. careb _____
8. itb _____
9. rescw virder _____
10. velel _____
11. cenhrw _____

The Upset Toolbox

From Circle Ten Pow Wow 1998

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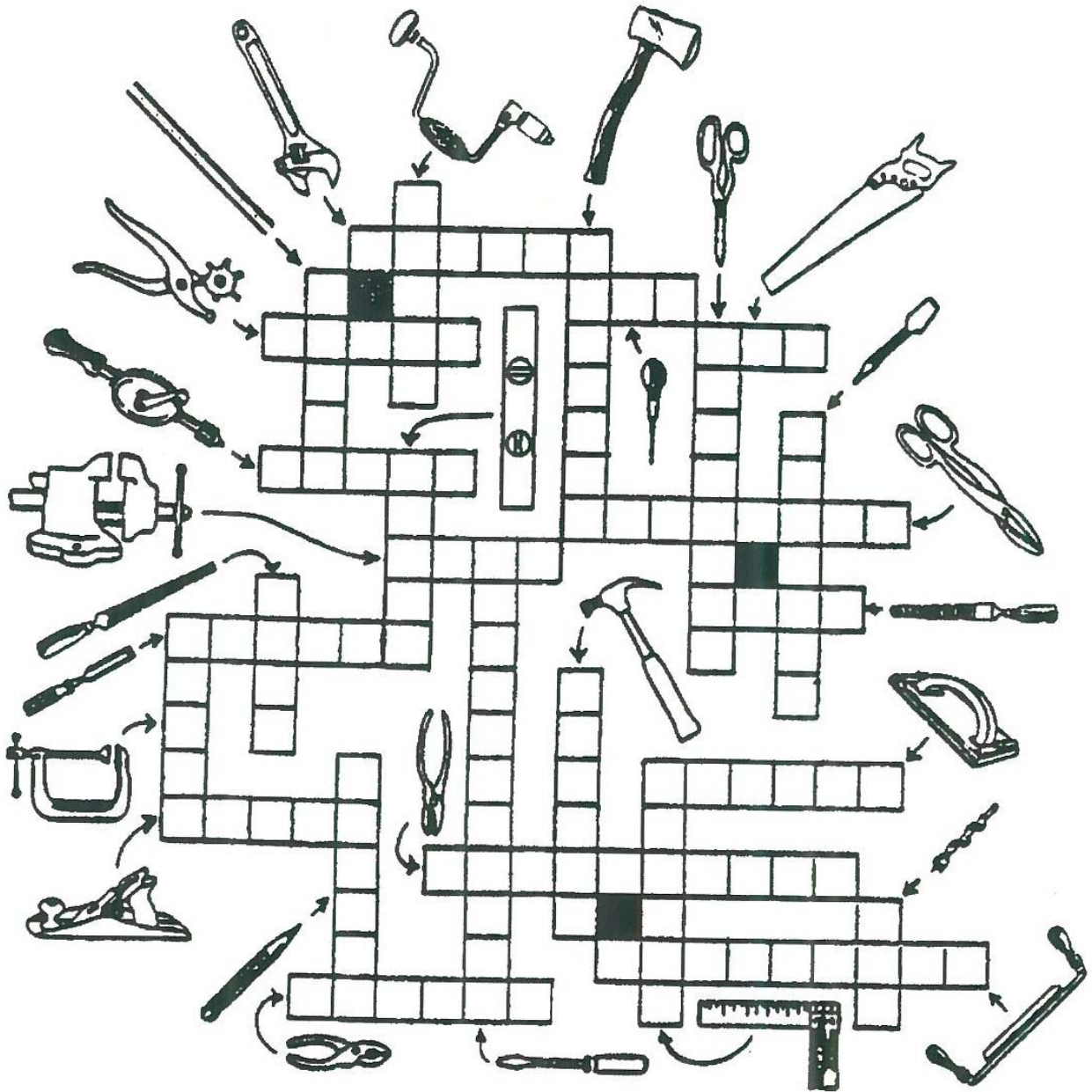
Can you straighten them out?

- | | |
|-----------------|--------------|
| 1. urel | rule |
| 2. aws | saw |
| 3. lnai | nail |
| 4. memhar | hammer |
| 5. elrwot | trowel |
| 6. alnep | plane |
| 7. careb | brace |
| 8. itb | bit |
| 9. rescw virder | screw driver |
| 10. velel | level |
| 11. cenhrw | wrench |

Handyman Crossword

Circle Ten Council Pow Wow 1998

Identify the tools in the pictures and fill in the blanks.

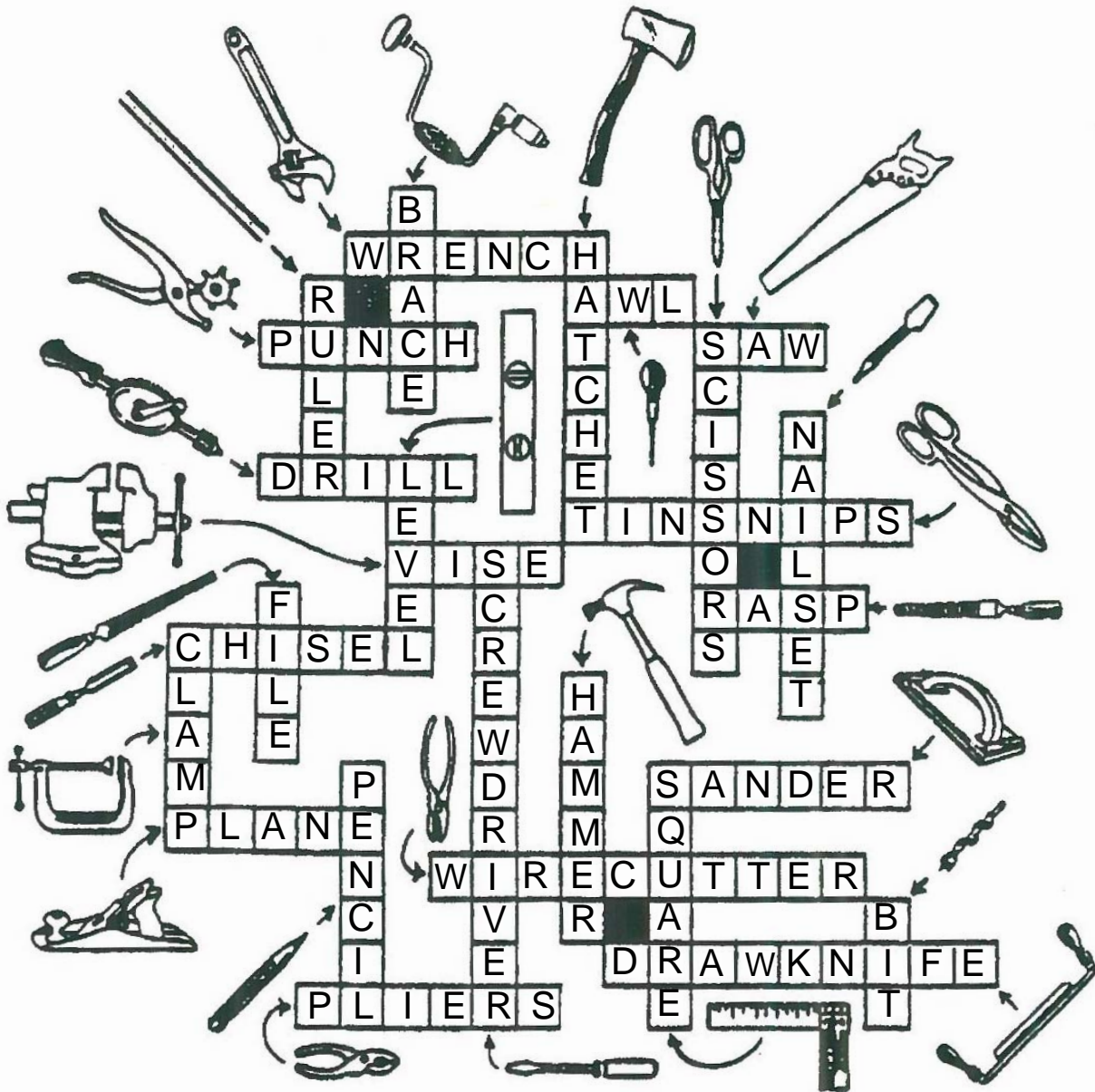


Note: Some of these tools are no longer commonly used!

Handyman Crossword

Circle Ten Council Pow Wow 1998

Identify the tools in the pictures and fill in the blanks.



Note: Some of these tools are no longer commonly used!

Working With Leather

Indian Nations Council Pow Wow 1994

Leatherwork is a particularly satisfying craft project. Its durability and natural qualities are especially suited for Cub Scouts. Whether they stamp, tool, carve, or simply make something out of finished leather, they will have a project they like and it will be useful as well.

Instead of using expensive leather, use rounders, practice pieces, scraps or half backs.

- Rounders are inexpensive precut 3 1/4" round pieces that are very versatile. They can be used to make coups, slides, coasters, bookmarks, and key chains.
- Practice pieces are another precut shape in leather that is even more inexpensive and with a little imagination can be a coup, a slide, a bookmark, key chain, or whatever several pieces attached together could be.
- Half backs are approximately 3 1/2" by 4 1/2" precut pieces that are a little more expensive, but do make change purses, picture frames, and folded key chains.

Scrap leather is usually available at leather shops and its limits are confined only by the size of the piece and your imagination. You will need an Exacto knife or leather knife to cut the projects out. This is a difficult task and should always be done by an adult.

When the leather has been cut out, you can decorate it by stamping, tooling, or carving. Stamping is imprinting a design stamp into the leather surface by tapping the tool with a wooden hammer. It is the easiest to learn, and boys love to pound a variety of stamps into their leather projects. Tooling and carving are more difficult and probably a leader will need some specialized instruction before attempting them. Since stamping is easier and really needs only a few simple rules of thumb.

Stamping leather is popular with the boys, start with a few design stamps and some wooden hammers and add as money and a good sale will allow. Purchase small stamps and two or three hammers and a small letter set 1/4 to 1/2" if money permits.

If this is impossible, you can make your own stamp set by filing different size nails into interesting shapes. File the point of a large nail flat and groove into

the nail tip. With the variety of nails available, you can make as many shapes as your imagination permits.

When ready to decorate the leather, dampen it (*Do Not Soak*), punch any holes necessary for lacing, and then stamp, rewetting as needed. It is best to encourage the boys to take some time to plan their design so they will be pleased with their finished project.

To stamp, hold the stamp upright and tap it firmly several times with a wooden mallet. Be careful not to drive it completely through the leather. Use a board under the leather to protect the surface underneath. Finish the project with a fast drying finish that is available at leathercraft stores. It paints on like shoe polish and dries quick. The final step is lacing. A good easy stitch to lace with is the whip stitch. It gives a nice finished edge to the project. Plastic lacing is inexpensive. Cut lace approximately 3 to 3 1/2 times the distance to be laced.

From BALOO's BUGLE November 2005

Working with Leather

Leather crafting is a fun hobby that many boys may carry into adulthood with them. It is best to start with simple projects like key chains and coasters. Then let the boys work their way up to more difficult items such as wallets or belts.

Leather Tooling Tips

- Dampen leather for ease of tooling, but don't leave it dripping wet.
- Have the boys draw a design on paper before starting. Then they can trace the design onto their piece of leather with an awl.
- Let the boys practice with their tools on scarp leather first.
- Lather stains or acrylic paints can give your projects an added dimension.
- Put a scrap of wood under each boy's project.

Working with Plastics

From BALOO's BUGLE November 2005

Acrylic sheets are used for plastic projects. Almost any plastic supplier has scrap acrylics which you can purchase from them for a minimal price. (They may offer to donate the pieces.) You can also find sheets of acrylic in many home improvement stores. You will need fairly thin acrylic (1/8" thickness is plenty) for these projects. You can use clear or colored sheets, depending on the project you choose.

It is important that you plan ahead. You will have to do some of the work yourself. For example, an adult should oversee the use of ovens or appliances. For simple thermoforming, a kitchen oven, electric hot plate, heat gun, hair dryer or strip heater can be used. There are many variables involved in heating and forming plastics, so experiment in advance with scrap pieces so you'll know what to expect at the meeting.

As a general rule, the plastic should be heated as quickly and uniformly as possible. The plastic should be very pliable or rubbery for good forming, when heated. When heating in an oven, set the temperature at 350 degrees.

General Procedures:

- Before you heat any plastic, be sure to remove all masking paper and foreign matter from it.
- For simple bends, first cut to shape the pieces to be formed.
- Finish the edges the way you want them to appear in the final project.
- Wear soft cotton flannel gloves when handling the heated plastic.
- Form all pieces as quickly as possible, as the plastic cools quickly.

Working With Tin And Metal

From BALOO's BUGLE November 2001

San Francisco Bay Area Council

Cub Scout metal projects can be divided into three categories:

1. Those with cans and aluminum plates.
2. Those with lids and sheet metal.
3. Those with wire.

Projects with cans generally require such tools as can openers, "church keys", pliers, punch and maybe a hammer. These projects include bird feeders, planters and hobo stoves. Advanced projects would include cutting the can with snips to make candle holders, drinking cups and biscuit or donut cutters.

Projects with frozen orange juice lids or "kerr" lids usually require only a hammer and punch or nail. Here a design is made by denting the metal. These projects include Christmas tree ornaments, tie slides, necklace or mobile pendants.

Projects with wire or coat hangers usually require pliers, a bending board and a pair of hands. These projects include wiener forks, hanging planters, mobiles and sculpture.

It would be a good idea to have any cutting with snips done and any sharp places removed with a file before the boys arrive. Most boys are not strong enough to cut metals thicker than a postcard. They will probably cut themselves on the sharp edges while they struggle. Even metal from TV dinner plates and pop cans is very sharp and would be better cut by an adult.

You need to plan and prepare for a good project. Your objective is for each boy to be successful, that is, to have all the projects look alike. Otherwise you are sure to have one tugging at your shirt crying, "Mine isn't any good. It doesn't look like Bobby's!"

You will probably have to do part of the work before the meetings. This is done to insure the boys can finish during the meeting and to avoid tasks too difficult for the boys.

You will need enough tools for each boy or risk one becoming a trouble maker. If you are short on the number of tools, have something else for the others to do, or have some use the pliers while others use the hammers. They may still fuss over who does what first, but you tried. It is best to have one tool for each boy, just alike.

No matter what craft you are doing, always have an example of the finished project. Most of the boys you will work with are not able to visualize what you want without holding one in their hands.

Craftsman Activity Badge

Tool Safety

Requirement 1

Explain how to safely handle the tools that you will use for this activity badge.

Woodcraft

From Indian Nations Council Pow Wow 1994

Woodcrafts can vary in size and type requiring minimal amount of skill to as much skill as a boy can perform. Crafts should be selected within the boy's capabilities. Most projects can be made with a few simple hand tools. **Use of power tools should be limited to those capable of handling such type tool.**

Safety First

1. Boys should work with adult supervision.
2. Work areas should be clean, large and have good light.
3. Don't wear loose clothing around tools or any type of machinery.
4. Work carefully and not too fast, that might result in an accident.
5. Worktops should be at hand level height for best results.
6. Don't force work. This could result in binding, slipping, kickback and breaking tools or craft. Tools should be kept clean and sharp.
7. Slight cutting mistakes can be corrected with sandpaper and wood filler.
8. Use clamps or bench vise to hold material. This will make cutting easier.
9. Limit use of tools according to the boy's skill and knowledge of how to use.
10. Use safety glasses when using tools. This protects eyes from flying chips.

Craftsman Activity Badge

Tool Safety

Requirement 1

Explain how to safely handle the tools that you will use for this activity badge.

From BALOO's BUGLE November 2005

Handsaws

Southern NJ Council

Handsaws have come a long way since the earliest Stone Age man made his by chipping notches in a piece of stone or flint. Today's saws are made of steel, with handles designed for a firm grip and with two different types of teeth. These two very important saws in a wood worker's tool kit are a



rip and a crosscut saw. While both saws look alike in size and shape, a close examination of the teeth will disclose several differences - the shape and spacing of the teeth, and the way the teeth are filed. Rip-saw teeth are designed to cut with the grain of the wood and so are straight-filed, each tooth cutting as a small chisel. Crosscut saw teeth are designed to cut across the grain and so are bevel-filed, each tooth cutting the wood fibers like a sharp knife. Both saws have a "set" in the teeth ... that is, alternate teeth are bent outward slightly, so the saw kerf will be slightly wider than the thickness of the blade to provide clearance and make cutting easier.

High quality saws are taper-ground for the same reason. The most popular size of rip and crosscut saws is 26 inches, with five or five and one-half teeth (point to the inch for rip saws and eight or ten teeth to the inch for crosscut saws.)

To rip a board, hold at 45 to 60-degree angle. Take long, easy strokes. Don't force saw To start a cut, use thumb as a guide for blade. Extending your forefinger on handle, helps to steer saw in straight line. For crosscutting, hold the saw at an angle of 45 degrees. Steady the board so it does not vibrate.

Craftsman Activity Badge

Tool Safety

Requirement 1

Explain how to safely handle the tools that you will use for this activity badge.

From BALOO's BUGLE November 2004

Baltimore Area Council (2004) and Northwest Suburban Council (2000)

Webelos Scouts who have spent a year or two in a Cub Scout Den before coming into the Webelos Den will already have had some craft experience. They may have already worked with simple woodworking tools; but chances are they will not have had much experience with leather craft or tin craft.

This is a good opportunity for a boy to gain some knowledge in these skills.

While working with boys on this activity badge, keep these things in mind:

Patience - Some boys require a high degree of patience. Stick with it; you'll be glad you did. Enlist the help of the assistant Den Leader, Den Chief, and fathers, so you won't need to do it all alone.

Preparation - Have all tools laid out at separate workstations before the Den Meeting starts. Build a sample of the item yourself before the meeting and make note of the steps that require the most coordination. Be prepared to help boys individually in these areas. Show them your sample so they can get an idea of what the finished product will be like.

Perseverance – You should insist that the boys finish the item which they begin. This is very important. If necessary, work individually with them outside the Den meeting or enlist the help of others. Don't even consider using a project, which the boys can't complete within a reasonable amount of time. Watch for signs of discouragement, and help the boys who seem to be having trouble.

Safety - Help the boys understand safety practices and to take safety precautions where needed. They should realize that sharp tools are a necessity and that they should use them with care and safety. Encourage every boy to put forth his very best effort and reserve your praise for projects worthy of compliments.

Craftsman Activity Badge

Tool Safety

Requirement 1

Explain how to safely handle the tools that you will use for this activity badge.

From BALOO's BUGLE November 2001

Heart of America Council

The Craftsman Activity Badge requires the use of hand tools. Since the requirements take much more time than can be allocated to Den Meetings learning the proper use of tools is important. A dad who is a wood working hobbyist can demonstrate the use of tools. Have a variety of tools and materials on hand so the Webelos can practice using them. (Extra dads can be a big help at this meeting.)

Suggested tools:

Hand saw	Vice; Combination square	File
Coping saw	Electric or hand drill	Screwdriver
Tin snips	Leather punches	Plane

Make the Webelos aware of the hazards in working with tools and use the proper safeguards, gloves or eye protection when appropriate. A simple project such as a birdhouse or bookends using precut parts is a good starter. Have the Webelos assemble them in a step by step-by-step procedure as they follow you or a Den Dad.

Aluminum cans be substituted for tin and is much easier to work (the edges not as sharp as tin). Most "do it yourself" stores have the lighter gauge sheets that are satisfactory for most uses. Model railroad supply houses have some sheet metal (brass and aluminum) tubing and extrusions that are rather expensive but may be just what is needed for a special project.

Craftsman Activity Badge

Tool Safety

Requirement 1

Explain how to safely handle the tools that you will use for this activity badge.

From Circle Ten Council Pow Wow 1998

There are a lot of suggestions in the Webelos book for easy to medium hard projects. Experience has shown that boys this age are very eager to start cutting, hammering and gluing but don't know how to use the tools properly. Most of these young men have never used a coping saw or hammer before. Begin by explaining how to safely use the tools that you will need to do the project. Next demonstrate on a scrap piece of wood or plastic how to properly use each one. You will be very surprised to see how hard it really is to use a coping saw, if not properly done. This demonstration will save you a lot of time later on when the boys begin cutting on their projects. Let each boy try it on the scrap wood.

Tools and Materials

There is a very good web page which is a tool dictionary along with photos for all sorts of hand tools and is located at www.position.co.il/WEBBUDDY/HTM/Han1aTool.htm.

Coping Saw

If you don't already have a coping saw they can be obtained from many places. The prices also vary depending on the quality and source. You can buy several different types of cheap saws at the various dollar stores. These saws resemble a small hack saw more than a coping saw but they work and you can afford one for each of the boys. Unfortunately, most of these cheap saws have a very fine blade which makes working with wood a little harder.

The **PITCH** of the blade refers to the number of teeth per inch. Rules for selecting blade pitch are based on material hardness and thickness. Hard materials require blades with a fine pitch while soft materials use coarse pitch blades. There are a couple of good web sites to look at regarding working with saws. The first is titled "*Cutting Tools and Procedures*" and can be found at www.bae.ncsu.edu/courses/bae201/text/cutting/cut.html. The other is a list of suggestions sent in by many different people about working with different tools and materials and gives short cuts and methods for using different tools. This site is sponsored by Highland Hardware in Atlanta, Georgia and can be found at www.highland-hardware.com/guestbook/guestbook3.html. Also don't forget to visit the

Cole Hardware's page at www.colehardware.com/quikfrme/workshop/toolbox.htm for proper care of the tools in your toolbox.

Hammers

There are a lot of different hammers. It is best to use a standard 16 ounce claw hammer when working on these projects. The boys might find it interesting to see the different types of hammers and learn how they have been changed for different jobs. There is a web site in China, which contains a list with photos of various hammer types at

www.sh.com/ie/hardware/hammer/hammer.htm.

Popular Mechanics magazine has a great web page titled "Hammer Basics" which covers the proper way to use a hammer. Along with a fully detailed description of each of the hammers elements. This page can be found at www.goodhousekeeping.com/pm/sweatequ/106hamfl.htm. There is also an interesting page on hammers used for horse shoeing located at

www.horseshoes.com/magazine.heritage/hammer/hammercommand.htm.

Screwdrivers

There are more types of screwdrivers than just about any other tool. It seems that you never can find the right screw driver when you need one. Popular Mechanics magazine has a web page that covers just about every thing you need to know about screwdrivers and their proper usage. This page is located at www.popularmechanics.com/popmech/sci/9612HITOM.html

Wood

Wood is an important item in any of the projects. Select a wood that is right for the job. It is very easy to cut white or yellow pine but these woods are too soft for projects such as a cutting board, which needs a hard wood such as oak. Bass wood works very well for making small objects such as neckerchief slides and is a soft and easy wood to work with. It is also harder to find and costs a little more than standard white pine.

A good source of wood for most projects is the scrap bin at Home Depot or Lowe's. These stores end up cutting wood for customers and having pieces left. They are generally marked down to just a few cents each. Scrap wood, generally 2x 4's, is thrown out for curb side pick up almost year round.

Popular Mechanic has a web page on the selection of wood and usage located at www.popularmechanics.com/popmech/home/9511HISCM.html.

Adhesives

For most of your wood projects a simple wood glue or Elmer's white glue works best. The Popular Mechanics web page in the wood section covers how to apply adhesives.

Paint

Paint is one very complicated subject. Your best bet for this subject is to utilize the professionals at you nearest hardware store such as Home Depot or Lowe's. These stores generally have a very knowledgeable person working in the paint department. There can be a lot of mistakes made by using the wrong paint for the project. This can include rubbing off on clothes or furniture, sticking to objects or not sticking or drying at all. Flex Bon Paints has a decent web page on how and what paints or stains to apply to different type of materials located at www.flexbon.com/specs.html. Lowe's maintains a group of "How To" web pages at www.lowes.com/noframes/howto/index.htm on various paint projects.

Other resources for types of tools and materials are:

- Local hardware store
- Local library
- Boy Scout merit badge books

Craftsman Activity Badge

Wood Projects

Requirement 2

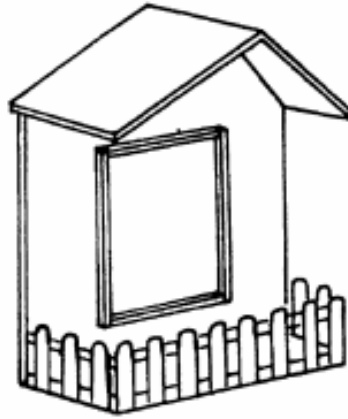
Construct two different wooden objects.

From BALOO's BUGLE November 2006

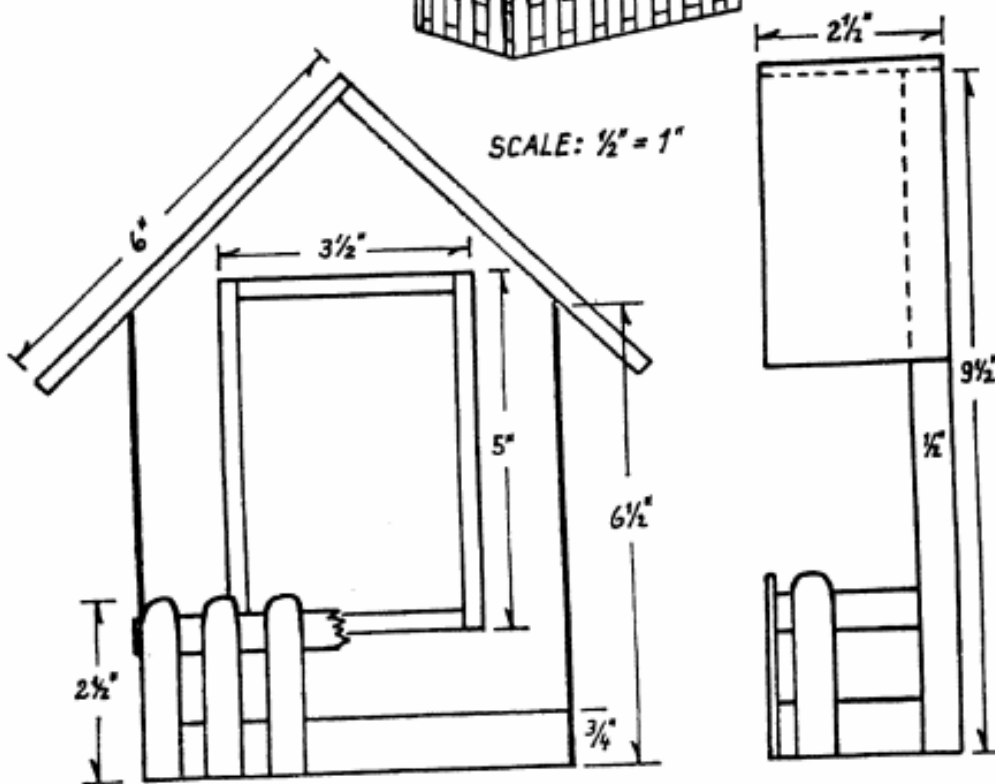
Picture Frame House

Southern NJ Council

- 1 Floor $\frac{3}{4}$ " x 2" x 6"
- 1 Back $\frac{1}{2}$ " x 6" x $9\frac{1}{2}$ "
- 1 Rooftop $\frac{1}{4}$ " x $2\frac{1}{2}$ " x $5\frac{3}{4}$ "
- 1 Rooftop $\frac{1}{4}$ " x $2\frac{1}{2}$ " x 6"
- Cut popsicle sticks for fence
- $\frac{1}{4}$ " x $\frac{1}{4}$ " sticks for picture frame



SCALE: $\frac{1}{2}$ " = 1"



Craftsman Activity Badge

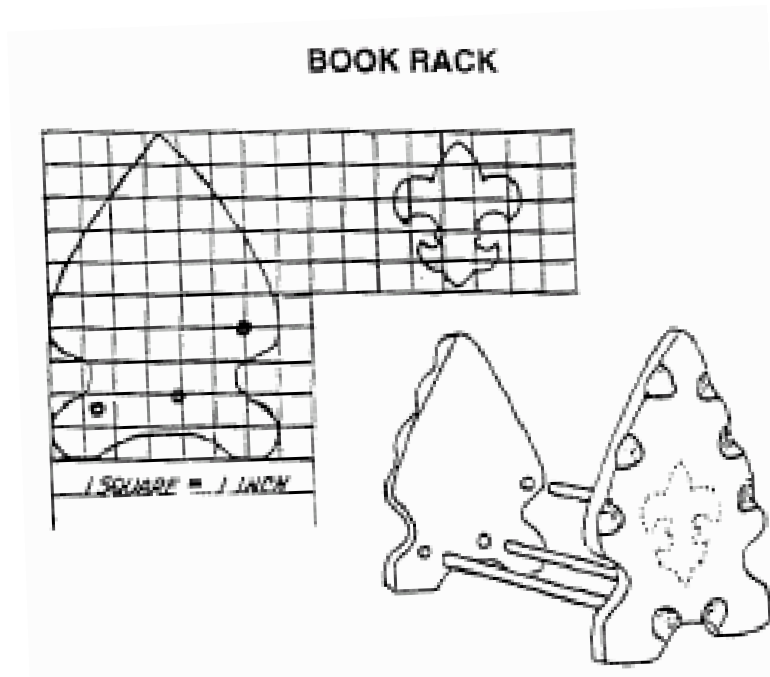
Wood Projects

Requirement 2

Construct two different wooden objects.

From BALOO's BUGLE November 2005

Book Rack



Keeping your Scouting books, and other books that you are reading, in this rack will help you find just the book you want quickly.

It also helps to keep your room in order. Making this book rack is not difficult and is a good woodworking project. The end boards of the rack are cut out in the shape of a huge Indian arrowhead. See template for pattern. These are cut from one-half inch hardwood.

Sandpaper the edges off smooth and “chip” the edges with a half-round file. The chip grooves are made on the outside of the end boards only. The inside surface is left smooth. Three, one-half inch dowels are used for the spreaders. They are 12 inches long, and the ends are glued into holes made in the end boards. These holes must stop short of going through. The proper location of these holes can be determined from the pattern. When boring the holes, be sure to make the ends right hand and left hand. Otherwise, you will be in trouble.

A thin piece of plywood about 1/8 inch thick is used for the Scout emblem. Make one for each end and glue them in place as indicated in the illustration. The rack can be finished any way you desire. It can be stained and lacquered, or finished natural. If you like bright colors, it can be painted with enamel. The emblem should be a contrasting color.

Craftsman Activity Badge

Wood Projects

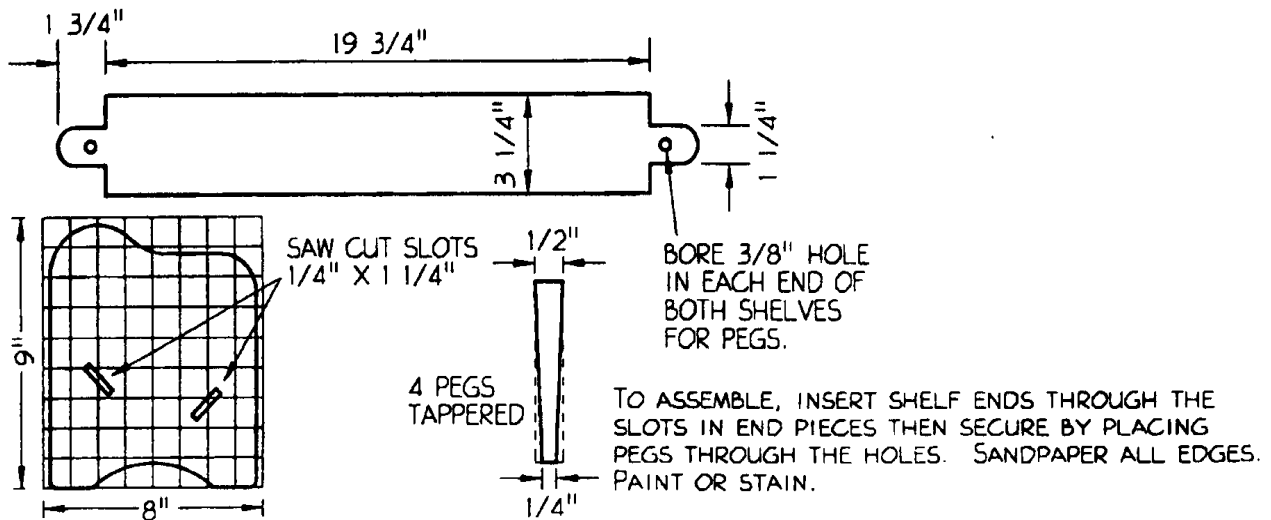
Requirement 2

Construct two different wooden objects.

From BALOO's BUGLE November 2006

Book Trough

Southern NJ Council



1. Copy the picture shown and enlarge.
2. Trace the diagram of book ends onto a $3 \frac{1}{8}$ " board or a piece of plywood.
3. Cut the shelves from measurements.
4. Make the ends identical by clamping them together before cutting and finishing.

Craftsman Activity Badge

Wood Projects

Requirement 2

Construct two different wooden objects.

From BALOO's BUGLE November 2006

Mountain Cabin Bookends

Baltimore Area Council

Using 3/4" wood, cut one back 4" x 6", one base 3" x 4", one cabin and one tree for each bookend. See pattern pieces

After making pieces, assemble and paint as desired.



Craftsman Activity Badge

Making Things

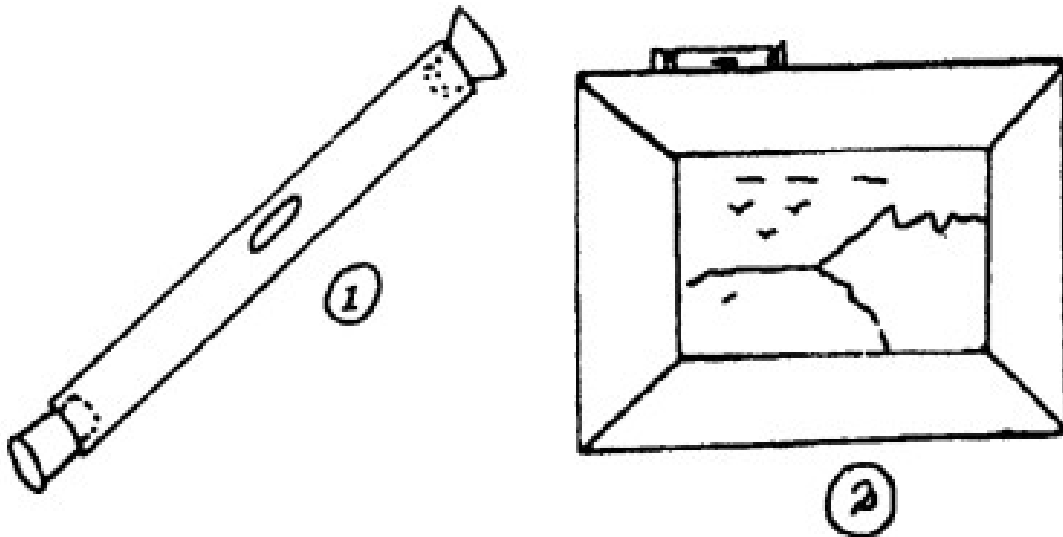
Requirement 4b

Make four useful items using materials other than wood.

Carpenter's Level

From BALOO's BUGLE November 2006

Southern NJ Council



You can make a carpenter's level out of a glass tube - like dentists use or the kind of plastic tube a toothbrush comes in.

Procedure

1. With the vial from the dentist's office, remove one rubber cork from the end. Rinse the tube out well and then fill it almost full of water and replace the cork.
2. With a glass or plastic tube, cork one end, fill nearly full with water, then cork the other end. (Picture 1)
3. Lay the tube on a flat surface. If this surface is perfectly level, the bubble inside the tube will be exactly in the middle. If the surface is not quite level, the bubble will be off center one way or the other. (Picture 2)

Craftsman Activity Badge

Making Things

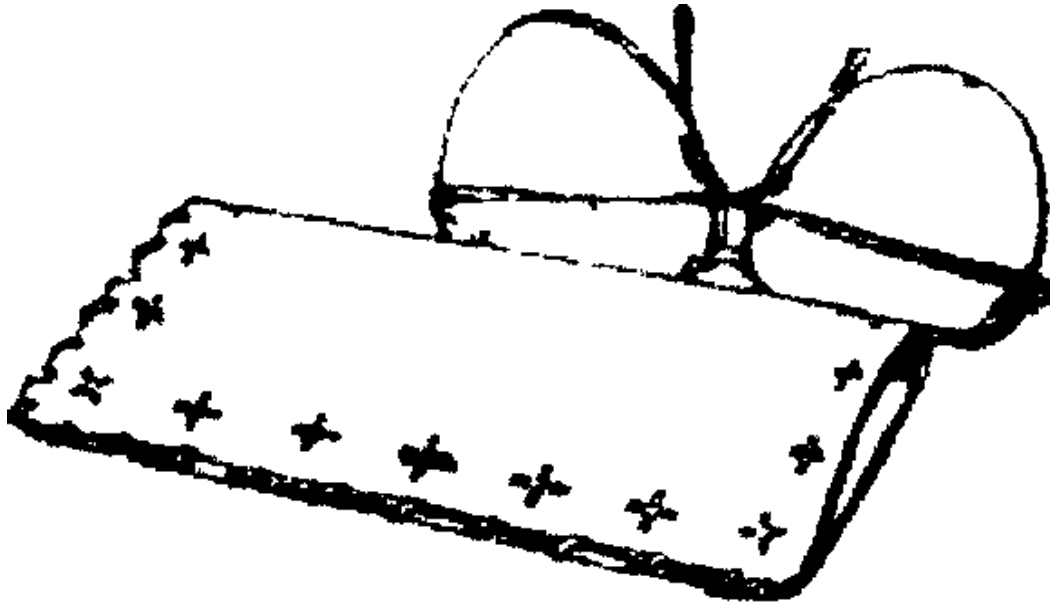
Requirement 4c

Make four useful items using materials other than wood.

Leather Eyeglass Case

From BALOO's BUGLE November 2006

Baltimore Area Council



Procedure

1. Measure eyeglasses and cut leather (a piece approximately 6" x 6") so glasses fit easily when case is folded.
2. Fold leather and punch holes for lacing using the running stitch.
3. Cut simple design into head of a large nail with a file; then file off nail point. Dampen leather and use small hammer to tap the design on.

Craftsman Activity Badge

Making Things

Requirement 4c

Make four useful items using materials other than wood.

Leather Projects

From Indian Nations Council Pow Wow 1994

Material: Instead of using expensive leather, use rounders, practice pieces, scraps or half backs.

- Rounders are inexpensive precut 3 1/4" round pieces that are very versatile. They can be used to make coups, slides, coasters, bookmarks, and key chains.
- Practice pieces are another precut shape in leather that is even more inexpensive and with a little imagination can be a coup, a slide, a bookmark, key chain, or whatever several pieces attached together could be.
- Half backs are approximately 3 1/2" by 4 1/2" precut pieces that are a little more expensive, but do make change purses, picture frames, and folded key chains.

Leather Coup, Coaster, Key Chain

- Wet leather.
- Punch holes for lacing if desired. The coup needs one or two holes at the top and one at the bottom. The key chain needs one.
- Stamp
- Color with permanent marker or dye.
- Apply finish.
- Lace or add key chain or plastic lace to complete the project chosen.

Leather Tie Slide, Belt Coup

- Wet leather
- Punch holes, or cut slits.
- Stamp and color
- Apply finish, dry thoroughly.
- Add lacing as desired.

Craftsman Activity Badge

Making Things

Requirement 4c

Make four useful items using materials other than wood.

Bow Drill

From Santa Clara County Council Pow Wow 2001

This drill may be used to start a fire as well as for drilling holes.

Material

A green twig for the bow

Stone or block of wood for palm piece
(With an indentation to hold the shaft)

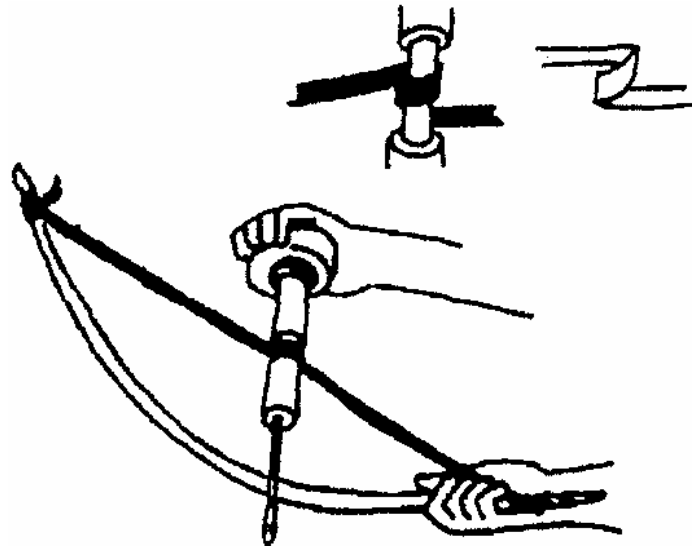
A 4" x 3/4" straight branch or dowel for
shaft

Thong or gut string long enough to hold
bow bent

Bit of flint or sharpened steel rod

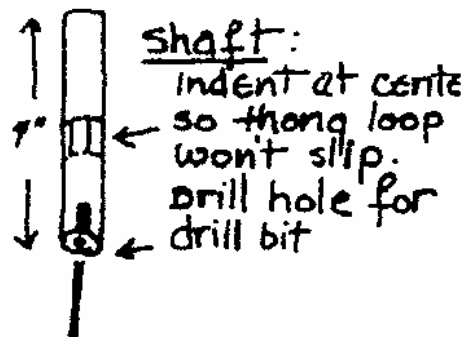
Shaft: Indent at center so thong loop
won't slip.

Drill hole for drill bit



To Operate:

1. Tie thong to bend bow.
2. Loop thong around shaft indentation.
3. Bear down on palm piece with left hand (if you're right-handed), or this may require some adult assistance.
4. Saw the bow back and forth to rotate drill shaft.
5. Keep tension in the thong to prevent it from slipping on the shaft.



Craftsman Activity Badge

Making Things

Requirement 4d

Make four useful items using materials other than wood.

Tin Can Lanterns

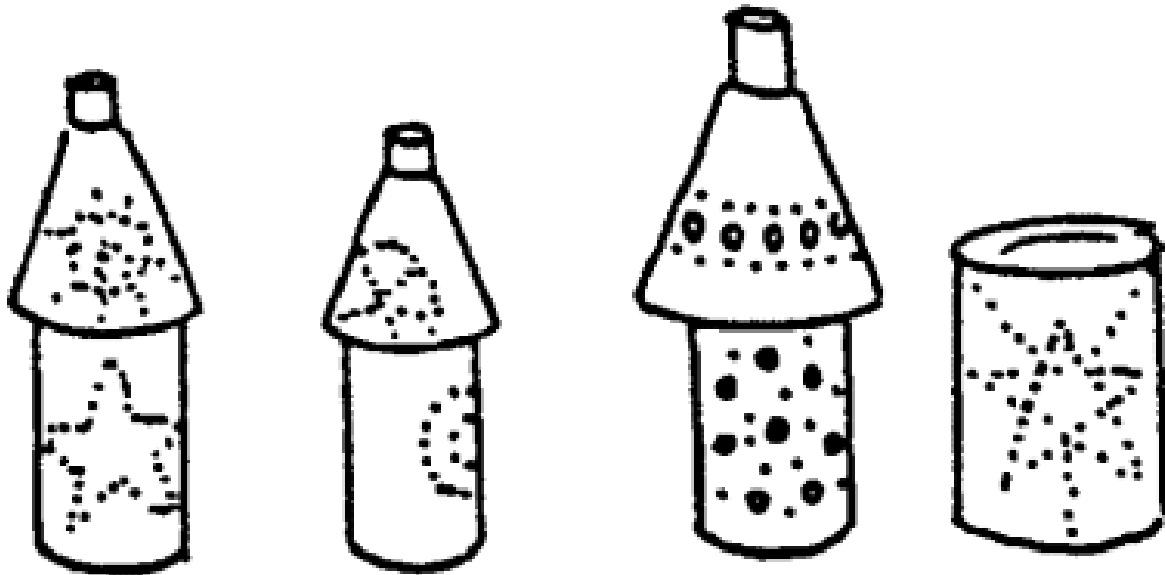
From BALOO's BUGLE November 2000

Northwest Suburban Council

In Mexico people often light their houses at Christmas with simple tin lanterns. They're decorated with lacy patterns of punched holes. Candlelight glowing through the holes creates dozens of flickering stars.

Use tin cans or aluminum funnels. The tin is easily pierced with a hammer and nail if you first freeze water in it. The funnels are sturdier and won't need frozen water.

Make a paper pattern which will fit around the can. Draw designs on the paper to follow as you punch the holes in the can.



Lay the can of frozen water on a towel. Wrap pattern around can and tape it down. Hammer evenly spaced nail holes through the lines of the pattern.

In each punched can place a small candle and holder. Votive candles in glass jars work well. Place the funnel upside down, over the top.

Craftsman Activity Badge

Making Things

Requirement 4d

Make four useful items using materials other than wood.

Tin Can Lantern

From Santa Clara Council Pow Wow 2000

Have a light for a patio table, decorate a room for a party, or give this lantern to someone special.

Materials

Clean tin can, any size

Paper, pencil, and scissors

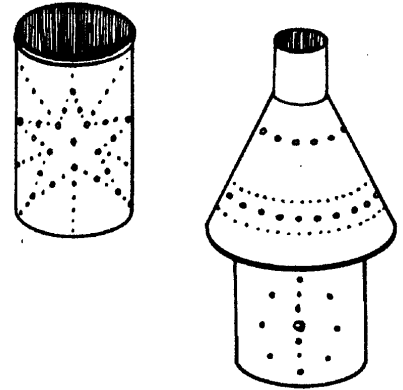
Several sizes of nails

Hammer

Small candle or votive candle

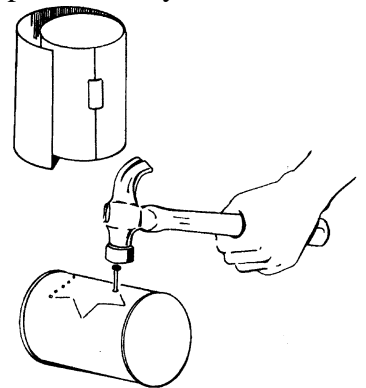
Funnel (optional)

Small glass jar that fits inside the can



Procedure

1. Cut a piece of paper just big enough to fit around the can. Draw a design on the paper, and then lay the paper aside.
2. Fill the can almost full of water and freeze solid.
3. Lay the can of ice on a towel and wrap the paper around the can. Tape it securely.
4. Now, hammer evenly spaced holes through the lines in your design using different sizes of nails.
5. Punch holes in the funnel if you want a lid for your lantern.
6. After the ice has melted, dry the can. Put a small candle in the glass jar and place the jar in the bottom of your lantern. Place the funnel upside down for a top.



Craftsman Activity Badge

Making Things

Requirement 4d

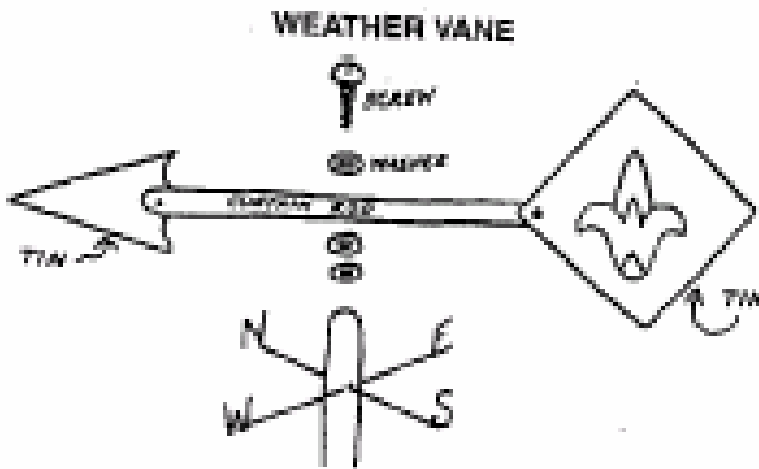
Make four useful items using materials other than wood.

Weather Vane

From BALOO's BUGLE November 2005

Materials

20" Curtain Rod
Coathanger Wire
Tin or Aluminum
Broomstick or dowel
Bolts, washers, screws
Glue
Enamel Paint



Construction

1. Using patterns enlarged from the above illustrations, cut arrowhead, Webelos insignia and compass point initials from tin. Roll edges so they will not be sharp and dangerous.
2. Paint with enamel.
3. Bolt arrowhead and Webelos insignia ends to curtain rod.
4. Drill small holes in 4 sides of broomstick.
5. Solder initials to wire. Glue ends of wire in holes of broomstick.
6. Punch hole in middle of curtain rod.
7. Screw curtain rod to top of broomstick, using washers, so arrow will swing freely when the wind blows.
8. When installing vane, be sure that the stationery compass directional initials point correctly, i.e. N is due North, etc.

Craftsman Activity Badge

Making Things

Requirement 4d

Make four useful items using materials other than wood.

Old Fashioned Lamps

From BALOO's BUGLE November 2004

Background

The lamps are made with 12-oz aluminum soda cans.

Glue plastic bottle caps to the bases to hold the candles.

For gluing, use glue suitable for metal, such as epoxy.

To cut the cans, use kitchen shears.

When necessary, use your fingers to curl or bend strips cut from the cans.

Use a hammer and nail to punch holes.

Spray paint the finished lamps with metallic or flat black paint.

Simple Lamp

For the base, cut a soda can down to 1" high and invert it.

From the cutoff sides of the can, cut a 1" strip for a decoration on the base.

Curl one end of the strip and insert the other end through a slit cut in the base; bend the end on the inside of the base and tape.

Craftsman Activity Badge

Making Things

Requirement 4d

Make four useful items using materials other than wood.

Desk Organizer

From BALOO's BUGLE November 2003

Material

Tin cans - Tuna can, juice concentrate can, soup can

4" x 4" block of wood

3 wood screws

Nail punch

Screwdriver

Spray paint

Hammer

Directions

1. Punch a hole in the center of each can bottom.
2. Arrange on block of wood and mark the center hole on the wood.
3. Punch a starter hole on the marks
4. Screw cans to wood.
5. Outside of cans can be painted and block of wood may be painted or stained.

Craftsman Activity Badge

Making Things

Requirement 4d

Make four useful items using materials other than wood.

Tool Tie Slides

From BALOO's BUGLE November 2002

Note: Each of the first three slides uses 1/2" PVC pipe for the slide part

Hammer

Use a 1 1/2" piece of wood for the handle. Shape the head from fast drying clay or salt dough. Paint the head silver and the handle brown. Glue to a piece of leather or PVC pipe.

Saw

Cut the saw blade from a piece of aluminum can. Use pinking shears to make serrated edge. Cut two 1" squares of wood for the handle. Glue them together with the saw blade inserted between. Draw the outline of the handle on the wood. Experienced whittlers may wish to cut away the excess wood. But it looks nice if filled in with markers. Add PVC pipe to back.

Screwdriver

Make a screwdriver from dowel. Use a thicker piece of dowel for the handle. Use sandpaper to shape the blade. Paint handle red or yellow and shaft silver. Attach to the PVC pipe

Leather Footprint

Materials: 1/8" Masonite, Scrap Leather, Exacto Knife (use only with adult supervision), Black Paint, Glue

1. Cut a piece of 1/8" Masonite to the outside pattern. Use that to cut an identical piece of leather.
2. Let the boys select their favorite animal track, draw it on the leather and cut out the track using an Exacto knife.
3. Paint the Masonite black, glue the leather piece on, and the track will appear as a recessed print.
4. Glue a loop of leather on the back for the neckerchief to pass through.

Craftsman Games

From BALOO's BUGLE April 2005

Tool Box Sort Out

Use an egg carton for the tool box. Have an assortment of nuts, bolts, screws, etc., to be sorted. The first boy to sort by size in the proper places in the "tool box" wins.

Nail Driving Contest

Give each boy a hammer and five nails. On the word "go", they are nail all five nails completely into a round log 4 inches in diameter. First one finished is the winner.

Board Sawing Contest

This is the same as the nail driving contest. Give each boy a small hand saw and a 2" x 4" board. On the word "go", each boy is to saw his board in half.

Name The Tools

Cut different silhouettes of tools from construction paper, such as a hammer, plane, brace, bit, wrench, screwdriver, etc. Glue these on lightweight cardboard, and use as flashcards.

Nail Game

Players work in pairs for this game. Items needed: Hammers, boards, nails. Provide each team with a nail, board, and hammer. First Cub drives nail into board. Second Cub tries to pull it out with the hammer. First team to do this wins.

Measuring Worm

Each Cub is measured from shoulder to feet. He assumes a push-up position with elbows and knees straight. He then inches his feet as close to his hands as possible, keeping knees straight. The original position is left by inching forward with his hands, thus finding out the distance from one point to another, depending on how many times he has moved forward. The Cub with the closest measurement is the winner.

Twenty Questions

Each Den has five minutes to write down twenty things that it takes to build a house. Not what is in a house after it is built, but what it takes to build it. The Den that gets 20 things written down first is the winner.

From BALOO's BUGLE November 1999

Toolbox Race

Viking Council

Egg carton "toolboxes" should be prepared before the meeting. Use an assortment of bolts, screws, etc. and mix them all together in the holes.

To play the game, give each Cub an egg carton. On signal, they must organize all the items into separate compartments. The first one to sort his "toolbox: gets to take it home with him.

Talk about the necessity of organizing your work area at home. Look at someone's garage or shop to see ideas.

Craftsman Games

Santa Clara Council Pow Wow 2001

Hide And Seek

Pretend you are a tiny speck and that you are hiding in the car. The others ask questions like,

- “Are you inside the car?”
- “Are you on the hood?”
- “Are you under the seat?”

You answer yes or no. The person who guesses your hiding place can be the next one to pretend to hide. Encourage boys to use correct name for the parts.

Variation: Play this game pretending you are hiding somewhere on a bicycle.

From BALOO’s BUGLE April 2006

Handyman Kim’s Game

Divide the patrol into two teams. Have two laundry bags of household items at the front of the teams. Place an empty grocery sack at the end.

Begin by having the first boy pull out one item and pass it on. When the item is deposited into the grocery sack, the end boy yells, “Next.”

Continue until all items are passed. Let the boys think that the object of the game is to be the first to empty their laundry bag and fill the grocery sack.

Take the bags away and give each boy a piece of paper. They have two minutes to write down what objects they remember passing.

Nail Hammering Contest

Divide into teams, each with a similar log, and hand each boy a nail.

As a relay, the first team to complete hammering their nails into their log wins.

From BALOO’s BUGLE November 2004

Tool Identifier

Use a piece of “peg board” 4 feet x 4 feet. Paint it a bright color of your choice. Outline commonly used tools found in the household such as: Hammer, saw, wrench, pliers, etc. Be sure to label what each item is. Insert “peg board hooks” for each item.

Craftsman Games

From BALOO's BUGLE February 2006

Nail Driving Contest I

Baltimore Area Council

Object: To be the first team to drive nail into wood.

Materials: Scrap wood and 10-penny nails.
A hammer for each team.

1. Divide the Den into teams.
2. In front of each boy place a hammer and a piece of scrap wood with a 10-penny nail already started a half-inch into it.
3. Boys take turns hammering the nail until the head is flush with the wood.
4. This is not a speed contest. Fewest strokes wins.
5. If the nail is bent, start over with a new one.

Nail Driving Contest II

Alapaha Council

1. Divide the den into two teams.
2. Line up the teams for a relay race about 10 feet from the driving area.
3. Provide each team with a piece of two by four about 1 foot long, a hammer, and nails shorter than the thickness of the wood.
4. Each boy runs to the board, drives 2 nails, runs back, and gives the hammer to the next player. The team driving the most straight nails (not the fastest) wins.

Variation: Have boys switch hands.

Sawing Contest

Baltimore Area Council

Object: To be the first team to cut a 2x4 in half.

Materials: A 24-inch length of pine 2x4.
A handsaw for each team.

1. Divide the Den into two teams.
2. Give each team a handsaw and the 2x4.
3. In turn, each boy takes one stroke with the saw until the wood is cut through.
4. This is not for speed.

Craftsman Games

From BALOO's BUGLE February 2006

Bricklayer's Relay

Greater St. Louis Area Council

Equipment: Per team: 1 hard hat; 1 dustpan; 1 flag; 3 or more 'bricks' - stones, pieces of Styrofoam, or blocks of wood.

Directions:

1. Divide the group into teams.
2. Have them stand in parallel straight lines at one end of the playing area.
3. The Leader shouts 'BUILD'.
4. The first member of each team dons the hard hat,
5. Places a brick in the dustpan and
6. Runs down to the other end of the playing area.
7. He places the brick on the ground and runs back to the starting line.
8. Each team member in turn, races down to build up the wall.
9. The race continues until all the bricks on each team are used up.

Long, Short, or Round

Baltimore Area Council

Object: To run the relay keeping track of the location of three objects.

Materials: Each team requires two containers.
A long common tool, e.g. a wooden mallet;
a short common tool, e.g. a stubby screwdriver,
and a round object, e.g. a small disk of wood.

This is a good game to sharpen alertness if the Leader keeps it moving fast.

1. The teams sit down in a single file line with feet extended.
2. They count off so that each Cub in the den has a number.
3. At the start, the container with the objects is at the front and the empty container is at the back of the team line.
4. The Leader signals with his arms long or short or round,
5. Then calls out a number.
6. Scouts with that number race to their can, pick out the object, take it to the other container, and put it in the other container, and return to their places.
7. The first Cub Scout back in place wins a point for his team.
8. Keeping track of the location of the objects soon becomes a mental challenge.
9. If a Cub heads for the incorrect container, he is bound to lose the point.

Craftsman Skits

Dad's Workbench

Circle Ten Council Pow Wow 1998

- Cast:** 4 boys representing tools (hammer, saw, file, and screw driver)
Narrator
Dad
Mother
Cub Scout
- Narrator:** As our scene opens, we find Dad looking for his hammer.
- Dad:** Has anyone seen my hammer?
- Mother:** No dear, did you look on your bench?
- Dad:** It's not there. No one ever puts anything back where it belongs!
- Hammer:** No, I'm not on the bench. I'm over here behind the door where he used me to drive the door hinge pins down and just left me.
- Dad:** Now where in the world is my saw?
- Mother:** Look on your bench. It should be there.
- Dad:** It isn't there. No one puts my tools back.
- Saw:** Here we go again. I'm lost because he didn't clean me and put me back again after I was used on the garage roof to spread the tar because I was bigger than the putty knife!
- Dad:** Good grief! Now where is my file?
- File:** He has forgotten that he left me out in the yard when he sharpened the lawn mower last fall. He'll be sure to find me when I get caught in the lawn mower the next time he mows the grass!
- Dad:** I can't find my screw driver now. I just had it a little while ago. Did you borrow it, son?
- Cub:** Yes Dad, but I gave it back to you.
- Screwdriver:** Here I am, right in his big pocket where he put me. Why can't people remember to put tools back where they belong?

Craftsman Skits

From BALOO's BUGLE February 2006

Jokes & Riddles

Great Salt Lake Council

What nail should you never hit with a hammer?

A fingernail

What are sleeping trees called?

Slumber

What do you call a tree in trouble?

A birch in a lurch

What do you call a nice looking tree?

Fine Pine

How would you be as a piece of wood?

Bored

What is the longest furniture in the world?

The Multiplication Table

Circle Ten Council Pow Wow 1998

Riddles

What kind of horse has no head and no tail?

A SAW HORSE

What gets larger when you take more from it?

A HOLE

What kind of coat should only be out on while it's wet?

A COAT OF PAINT

Craftsman Skits

From BALOO's BUGLE February 2006

The Invisible Bench

Baltimore Area Council

Need: 4 (or more) scouts and a Leader .

Have two boys building an invisible bench using invisible tools. They can pretend to hammer and saw, lift pieces and carry the completed bench to a spot on stage. Make sure they make it look heavy!

Cub #1: Boy am I glad we are done building this invisible bench for our Craftsman Activity Award

Cub #2: Yes, let's go get Mr./Miss (name of Leader) and show him/her.

Two other boys now enter and move the invisible bench to the other side of the stage and leave. Cub #1 returns and squats as though sitting on the invisible bench where it was originally placed

Cub #1: I'll just sit here on the bench until (Cub #2's name) returns with the (Leader's name) to check our work.

Cub #2: (*enters with Leader*) Here it is (Leader's name) Come try out our bench!

Cub #2 and Leader sit in bench. All three discuss how comfortable and well made the bench is.

If you have more Den members, have them come in one at a time and ask

Cub X: What are you doing?

Cub 1: I'm sitting on the invisible bench..

Cub X: Can I join you?

Cub 2: Sure, there's plenty of room.

Each additional boy pretends to sit on the bench.

Go on for as many boys as you want.

After the last boy is sitting, the two Cubs who moved the bench return.

Cub 3# What are you guys doing?

All: We're sitting on the invisible bench..

Cub #4: (*points*) But we moved it over there this morning!"

All: :AAAHHHHHHH!!!! *All seated boys fall down.*

From BALOO's BUGLE November 1999

Carpenter Skit Viking Council

Two boys are taking nails out of a box. One keeps throwing nails away.

"Why are you throwing all those nails away? They are perfectly good."

"The heads are on the wrong end!"

"Silly, those nails are for the other side of the house."

Craftsman Skits

From BALOO's BUGLE February 2006

New Saw

Baltimore Area Council

Announcer This scene takes place in a hardware store in a small north woods lumber town.

Lumberjack: *(Enters)* My old crosscut saw is worn out, and I need something that will let me cut more wood or I'm going to go broke!

Owner: Yes, sir! For only one hundred bucks you can be the proud owner of this chain saw. I guarantee that it will cut twice as much wood in a day as your old crosscut.

Lumberjack: *(Handing over money)* O.K. great! *(Exits)*

Announcer: The next day.

Lumberjack: *(Enters tiredly)* There's something wrong with this saw. I worked very hard yesterday but only cut half as much wood.

Owner: Well, sir, I have a lot of faith in this product. Here, I'll put a new chain on it and you give it another try.

Lumberjack: O.K., but if it doesn't do any better, I'll be back! *(Exits)*

Announcer: The next day.

Lumberjack: *(Enters exhausted)* This darned saw is no good!. I worked even harder and still it won't cut half the wood of my old saw! I want my money back!

Owner: Yes, sir! Just let me check it out here. *(Pulls starter rope)*

Announcer *(Makes sound effects of saw running.)*

Lumberjack: Oh, my gosh! What on earth is all that noise?

Measurement Problem

Great Salt Lake Council

Cast: Two Webelos Scouts and one Cub Scout

Set Up: Two Webelos Scouts come on stage carrying a long pole. They prop it up, then stand back and look at it.

Scout 1: Now, there are several ways we can figure out the height of this pole. How do you want to start?

The Scouts unsuccessfully try various methods of estimation to calculate the height of the pole.

The conversation goes something like...

Scout 1: According to my calculations, that pole is about 2 meters high.

Scout 2: There's no way. It has got to be shorter than that. Just look at it.

This kind of exchange repeats several times as the Scouts obviously become more and more exasperated. A Cub Scout strolls onto the stage.

Cub: Hi! (He watches a bit). What are you guys trying to do?

Scout 2: We are trying to measure the exact height of this pole.

Scout 1: We haven't had too much luck yet, but we will get it.

Cub: Why don't you just lay the pole on the ground and measure its length?

Scout 2: (To the Cub) Didn't you hear right? We want to know how tall the pole is—not how long it is!

Craftsman Songs

From BALOO's BUGLE February 2006

Wood Working Is Fun

Greater St. Louis Area Council

Baltimore Area Council

Tune: Jingle Bells

Saw on wood, Hammer nails,
Wood working is fun!
We'll get this project done on time
With the setting sun!

Stain the wood, Putty the nails,
Let's give a big hooray!
Now this project is done on time,
Let's go out and play!

Don't You Like to Saw

Baltimore Area Council

Tune: I've been working on the railroad

I've been sawing on this piece of wood.
All the live long day,
I've been sawing on this piece of wood,
Just to pass the time away.

Can't you see the saw dust flying
Rise up so early in the 'morn.
Can't you see our Lader shouting,
Not on my wood floor!

Don't you like to saw,
Don't you like to saw,
Don't you like to saw,

More, more, more, more!
Don't you like to saw,
Don't you like to saw,
Even if it's on the floor!

Craftsman Songs

From BALOO's BUGLE April 2004

Pound, Pound, Pound That Nail

Circle Ten Council

Tune: Row, Row, Row Your Boat
Pound, pound, pound your nail
Pound it right on through!
If you miss and pound your thumb,
Then it will turn bright blue.

Toolbox Song

Tune: I'm a Little Teapot

I'm a pair of pliers just because
Here is my handle here are my jaws

Chorus:

Keep me in your toolbox bright and new
Take me out and I'll work for you.

I'm a coping saw that's strung too tight
Pull me then push me to use me right.

Chorus

I'm a big strong hammer, a mighty tool.
Hit the nails only, that's the rule.

Chorus

I'm a happy C-clamp; tell you what I do,
I eat board sandwiches filled with glue.

Chorus

I'm a handy wood plane, give me a try.
I can help you out if your door's too high

Chorus

Craftsman Songs

From BALOO's BUGLE February 2006

Whacked My Thumb

Greater St. Louis Area Council

Baltimore Area Council

Tune: Jimmy Crack Corn or The Blue Tailed Fly

When I was young I went to play
In father's workshop one fine day
I took a hammer, some wood and nails
And tried to make some kitchen scales.

Chorus:

Whacked my thumb and I don't care
Hurt real bad, but I don't care
Whacked it good, but I don't care
The feelings gone away

I tried to hang a picture frame
Sent to me by Aunt Jane
To hang the picture, I was dumb
I swung the hammer, and smashed my thumb

Chorus

One day I tried to make a boat
Worked real hard so it would float
I nailed my fingers to the bow
I'm bandaged to my elbows now

Chorus

I joined the local Cub Scout pack
I learned to make a neat tie rack
A little skill was all it took
They had instructions in the book

New Chorus:

I missed my thumb, I learned to care
I missed my thumb, I wouldn't dare
I missed my thumb, my thumbnail's bare
The feelings here to stay

Craftsman Songs

If I Had A Hammer

Peter, Paul & Mary

If I had a hammer,
I'd hammer in the morning,
I'd hammer in the evening,
All over this land,
I'd hammer out danger,
I'd hammer out a warning,
I'd hammer out love between
My brothers and my sisters, ah-aaah
All over this land. Oo oo oo oo, oo oo oo

If I had a bell, I'd ring it in the morning
I'd ring it the evening,
All over this land,
I'd ring out danger,
I'd ring out a warning,
I'd ring out love between
My brothers and my sisters, ah-aaah
All over this land. Oo oo oo oo, oo oo oo

If I had a song, I'd sing it in the morning
I'd sing it the evening,
All over this land,
I'd sing out danger,
I'd sing out a warning,
I'd sing out love between
My brothers and my sisters, ah-aaah
All over this land. Oo oo oo oo, oo oo oo

Well I got a hammer, and I got a bell
And I got a song to sing, all over this land.
It's the hammer of justice,
It's the bell of freedom,
It's the song about love between
My brothers and my sisters,
All over this land.
All over this land.
All over this land. Oo oo oo oo, oo oo oo.

Craftsman Opening

Repairman Opening

From Bill Smith's Unofficial Cub Scout Roundtable Site and Baloos' Bugle February 1998

One Webelos stands in front of the group. His hair is messed up and his face is dirty. His shirttail is pulled out in a messy way. He has a pronounced frown on his face and stands all slouched over.

The Den Chief comes and stands beside him and says the following: "This Webelos is in need of repair and I think I have just the tools to do the job."

He picks up a hammer to which a sign has been attached, "Do My Best," and pretends to hammer the boy. The Webelos tucks in his shirt and stands a little straighter.

Next the Den Chief picks up a screwdriver with the sign, "Do My Duty," and pretends to use it. The Webelos combs his hair and stands taller.

Next the Den Chief picks up the pliers which has a sign, "God and Country," and pretends to use it. The Webelos stands at attention and salutes the flag.

Next the Den Chief uses a saw which says, "Help Other People," and the Webelos washes his face.

Finally the Den Chief uses a plane labeled "Law of the Pack," and the Webelos puts on his biggest smile.

Den Chief says, "Now this Cub Scout is really in good shape! Please join us in repeating the Cub Scout Promise."

From BALOO's BUGLE February 2006

Cubs Building Character

Sam Houston Area Council

- Cub # 1:** (carrying hammer) In Cub Scouts we learn to build character.
- Cub # 2:** (carrying plank) It is not what the boy does to the wood, but rather what the wood does for the boy.
- Cub # 3:** (carrying a plane) Through Cub Scouting we learn to remove the sharp edges off our personalities.
- Cub # 4:** (carrying sand paper) As we grow in Cubbing we become more refined and smooth in our manners.
- Cub # 5:** (carrying a tool chest) Our talents are gathered together and we get a chance to try them out when our den works on the themes each month.
- Cub # 6:** (walking with parent) Our parents help us to learn how to use the tools of life when they help us pass our achievements.
- ALL:** Thank you all for helping us grow into well rounded citizens

Craftsman Advancement Ceremony

Modified from BALOO's BUGLE February 2006

Cubstruction Ceremony

Great Salt Lake Council

- Props:** Cubmaster in a work smock with a carpenter's tool belt.
Awards are taped to wood scraps that are hidden in tool belt.
Be sure to emphasize the "puns" though out the ceremony.
- Cubmaster:** Tonight, we have some boys who "saw" the opportunity to "nail down" some advancement. At times these boys had to keep "hammering" on some of the tougher requirements, but they kept on "drilling", "carving" and "sanding" and finally "cut" through. We "wood" like to honor them tonight. Will Cub Scout _____ please come forward with his parents?
- Cubmaster:** _____ has "chiseled" through the requirements for the Craftsman Activity badge. (Cubmaster takes the Craftsman award from his tool belt and holds it up.) We "wood" like to have his parents present him this award. (Cubmaster hands the award to the parents who present the boy the award.)

Other "puns" which could be used when presenting awards include: "filed", "planed", "sharpened", "glued", "cut", "painted" or any other tool related name or adjective.

Craftsman Closings

From BALOO's BUGLE February 2006

Tools That Build a Better World Arrangement

Greater St. Louis Area Council

Each boy holds a tool as he speaks - saw, hammer, wrench, ruler, plunger, drill, and pliers. You will need seven Cub Scouts. Maybe hang tags on the tools with their parts in LARGE print

- Cub # 1:** We are the future builders of America and the world. And this is how we will shape tomorrow.
- Cub # 2:** (Hammer) I will hammer out injustice.
- Cub # 3:** (Saw) I will help cut out crime.
- Cub # 4:** (Drill) I will drill love into every heart.
- Cub # 5:** (Wrench) I will wrench out discrimination.
- Cub # 6:** (Plunger) I will plunge out hatred.
- Cub # 7:** (Pliers) I will pinch out poverty.

Builders

Greater St. Louis Area Council

Isn't it strange that princes and kings,
And clowns that caper in sawdust rings,
And common people like you and me,
Are all of us builders of eternity?

To each is given a bag of tools,
A shapeless mass and a book of rules,
And each must make, ere this life is flown,
A stumbling block or a stepping stone.

From Santa Clara County Council Pow Wow 2000

"I hold in my hand a pocket knife. This is a valuable tool because it can be used for many useful things. It is a dependable tool as long as the blade is kept sharp and free from rust, and the working parts are in good condition. If it is neglected and becomes dull and rusty, it will become dangerous.

"The same principle applies to us, as well. We have a body, which must be kept in good condition in order to work well. If we fail to take care of ourselves, we become rusty and dull just like a neglected knife. Do your best to keep fit and healthy this week."

Craftsman Closings

From BALOO's BUGLE February 2006

Block of Wood

Baltimore Area Council

Hold up a nicely finished wooden item.

As the wood is shaped, assembled, sanded, finished, and adorned with the final details of a fine finished piece of furniture, so our Cub Scouts grow through experiencing the many trails Cub Scouting has to offer. And soon, almost before we know it, the boy has grown and developed until he is ready to advance into the Boy Scouting program. Before our eyes, a boy has turned into a well-adjusted young man.

But a boy doesn't become a finished product all by himself. He needs challenge and direction. Our Den Leaders, assistants, and other pack leaders provide this help for our boys. They help to carve and shape the future of young men.

Parents provide vital support to help put the finishing touches on their sons.

Thanks so much to all of you who have reached out to help the boys in our Pack along the way to become all they can be.

Closing Ceremony

Baltimore Area Council

Props: Nice wooden object

Show the boys something made of wood. Point out its beauty and fine points.

The wood carver did not learn to do this overnight. It takes patience and hard work to learn how to carve well and make something beautiful. In the same way, you cannot learn to be adults overnight. You are learning a little more each day to make you better Cub Scouts, Scouts and adults.

Modified from BALOO's BUGLE February 2006

Craftsman Cubmaster's Minute

Sam Houston Area Council

This Craftsman Activity Badge is about building things. Anything worthwhile building takes some thoughtful planning, so that we know what materials we need, what rules we have to follow and when we need to get it done.

While you're building something useful, you are also building your skills. So, what you had a tough time doing this time won't be as hard the next time.

You're not only building cool stuff, but you're building your own personal toolbox of skills that you will carry with you for the rest of your life.