



# AMERICAN ELM DISTRICT



Volume 6, Issue 2  
Feb. 9, 2006

Welcome to American Elm District Cub Scout  
Roundtable Electronic edition  
Webelos activity badges Engineer and Athlete

Theme: **Construction**

## PRE OPENING ACTIVITIES

### Nuts and Bolts

By Heart of America Council

This code is as hard as nails. Each type of fastener stands for one or two letters. For example, the first one sometimes stands for A and other times for N. Can you hammer out the names of **eight** things you might find at a hardware store?

Code:

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

1. \_\_\_\_\_ 2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_ 5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

## The Jumbled Tool Box

By Heart of America Council

The toolbox is all messed up. Unscramble the following words to find your tools. You may not know some of the tools. Ask grownups for help.

EWERCRIVSDR \_\_\_\_\_

ODOW NEALP \_\_\_\_\_

MERMHA \_\_\_\_\_

SIVE \_\_\_\_\_

PCLAM-C \_\_\_\_\_

CRAEB AND ITB \_\_\_\_\_

TRCELEIC LIDRL \_\_\_\_\_

RESLIP \_\_\_\_\_

NDAH WSA \_\_\_\_\_

LORLCS AWS \_\_\_\_\_

GCONIP WSA \_\_\_\_\_

AHKC SWA \_\_\_\_\_

EPTA RSUEAME \_\_\_\_\_

LVLEE \_\_\_\_\_

QAESUR \_\_\_\_\_

IALN TSE \_\_\_\_\_

EIWR TREUTCS \_\_\_\_\_

INT PSINS \_\_\_\_\_



**Answers to The Jumbled Tool Box**

screwdriver, wood plane, hammer, vise, c-clamp, brace and bit, electric drill, pliers, hand saw, scroll saw, coping saw, hack saw, tape measure, level, square, nail set, wire cutters, tin snips.

**Cubstruction Word Search**

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

**Gathering activities**

By Great Salt Lake Council

**Wood** - Lay out a display of samples you can pick up anywhere that sells wood flooring. Label the samples 1, 2, 3 and so on. On a piece of paper to be handed out list the different kinds of wood you have and a space to put the corresponding number. This will give the boys an opportunity to check out the different types of wood, their texture and pattern design.

**Tools** - Take several different tools and list them on a piece of paper. Then on a table have these tools set out with #'s by them. See how well they can match them up. Just for fun see if you can find a few old tools to identify.

**Answers to  
Cubstruction Word Search**

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

**Opening  
Future Builders**

By Heart of America Council

- Cub Scout #1:** We are the future builders of America and the world. And this is how we will shape tomorrow.
- Cub Scout #2:** (Holds hammer.) I will hammer out justice.
- Cub Scout #3:** (Holds saw.) I will help cut out crime.
- Cub Scout #4:** (Holds pliers.) I will pinch out poverty.
- Cub Scout #5:** (Holds wrench.) I will wrench out discrimination.
- Cub Scout #6:** (Holds ruler.) I will live by the Golden Rule.
- Cub Scout #7:** (Holds plunger.) I will plunge out hatred.
- Cub Scout #8:** (Holds drill.) I will drill love into every heart.

**Repair Cub Scout**

A disheveled Cub Scout stands in front of the group. His hair is messed up, his face is dirty, the tail of this shirt is pulled out in a messy way. He has a pronounced frown on his face and he stands all slouched over. The Den Leader or Den Chief comes and stands beside him and

says the following:

**“This Cub Scout is in need of repair and I think we have just the tools to do the job.”**

A Cub Scout repairman picks up a hammer with a sign attached which says ‘Do My Best’. The Cub Scout pretends to hammer on the boy. The disheveled Cub Scout tucks in his shirt and stands a little straighter.

Another Cub Scout repairman picks up a screwdriver with a sign attached which says ‘Do my Duty’. This repairman pretends to work on the Cub Scout. Now the Cub Scout combs his hair and stands a little straighter.

A third Cub Scout repairman picks up pliers with a sign attached that says ‘God and Country’. After being worked on by his friend with the pliers, the Cub Scout stands at attention and salutes the flag.

The next Cub Scout repairman uses a saw, which is labored ‘Help other People’. After this final repair, the Cub Scout puts on his biggest smile.

The Den Leader or Den Chiefs then says, **“Now this Cub Scout is in really good shape.”**

Close by having all the boys check their appearance and then conducting the Pledge of Allegiance and the Cub Scout Promise.

### The Ladder of Cub Scouting

**Equipment:** Den Chief, 8 Cub Scouts, signs with key words on them, ladder on which to attach each sign

**Den Chief:** We think of Cub Scouting as a ladder of good citizenship. Let us show you what we mean.

**Cub Scout #1** (Hold up sign FRIENDSHIP)  
FRIENDSHIP – We make lots of friends in school, church, neighborhood, den and pack.

**Cub Scout #2** (Holds up sign TEAMWORK)  
TEAMWORK- We learn how important it is to work with others as a team member.

**Cub Scout #3** (Holds up sign DEPENDABILITY)  
DEPENDABILITY- We learn to be places when we promise and to do our part.

**Cub Scout #4** (Holds up sign LEADERSHIP)  
LEADERSHIP-We learn to lead games and help with other den and pack activities.

**Cub Scout #5** (Holds up sign LOYALTY)  
LOYALTY- We learn to be true to our friends, parents and our den and pack and to honor our country and it’s flag.

**Cub Scout #6** (Holds up sign GOODWILL)  
GOODWILL-We help our schools, church,

neighborhood and people less fortunate than we.  
**Cub Scout #7** (Holds up sign RESPONSIBILITY)  
RESPONSIBILITY- We learn to be responsible for certain jobs, our own belongings, and for the property of others.

**Den Chief:** Good Citizenship – Through Cub Scouting experiences, boys learn things that help make them better citizens as they grow into manhood.

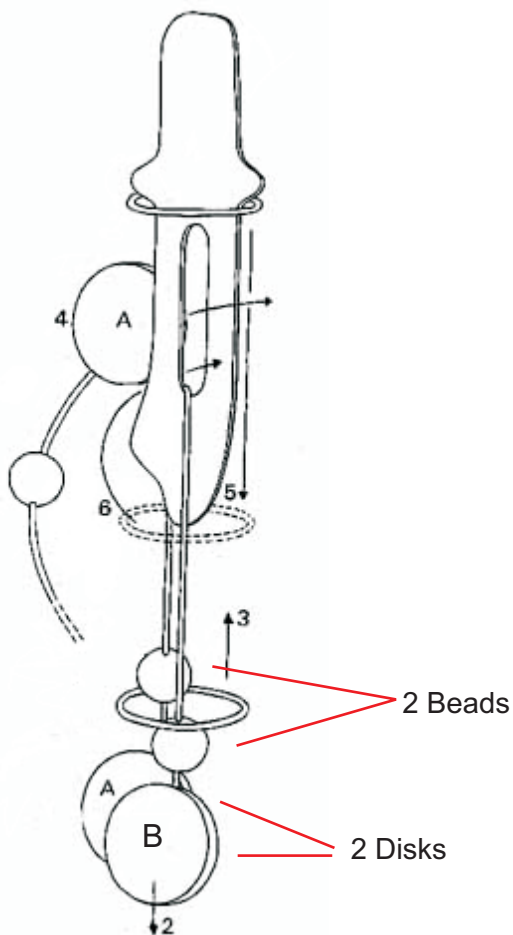
By Great Salt Lake Council

Boys love working with wood and tools. Toys, tools and gifts are easily made and then are used for years to come. If you don’t have the equipment, ask a parent or grandparent in your den or pack to help out. Wood working is the hobby of choice for a great number of people and most wood workers are willing to share their hobby. Craft stores can provide pre-cut materials. Some of these projects can be made with alternative materials like foam core and fun foam. The ideas given here are just a start; there are a lot of resources available, the Wolf, Bear and Webelos handbooks have ideas, as does the Cub Scout Leaders How-to Book. Libraries and bookstores are filled with books on projects that would be appropriate for boys.

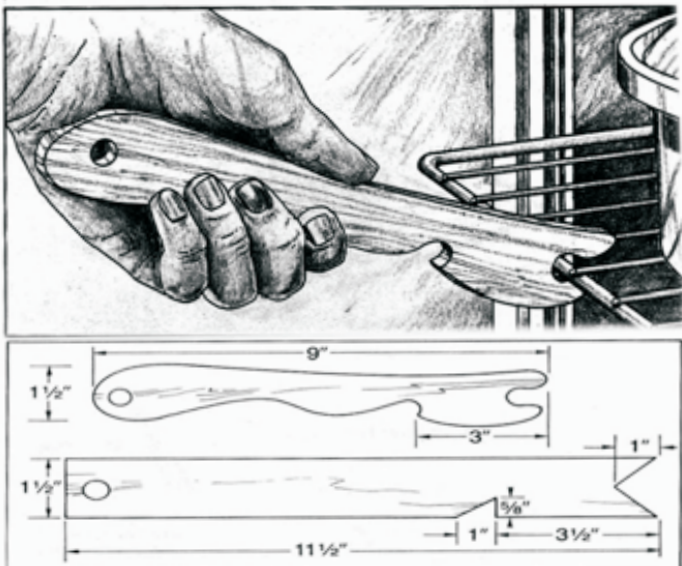
**Sword Puzzle:** Cut out and sand the wooden sword (your ring must be able to move freely over the blade of the sword, but not over the handle). Tie a piece of heavy string to two disks and two beads, the disks must slide through the hole in the sword’s blade, but the beads must not. Assemble as shown with the metal ring. The goal is to remove and replace the ring.



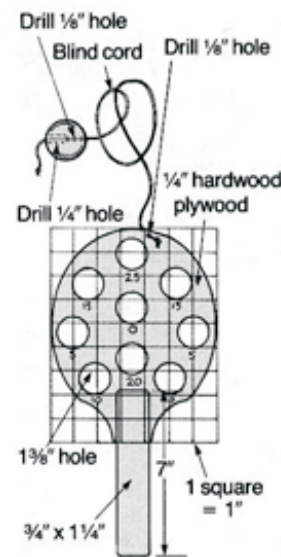
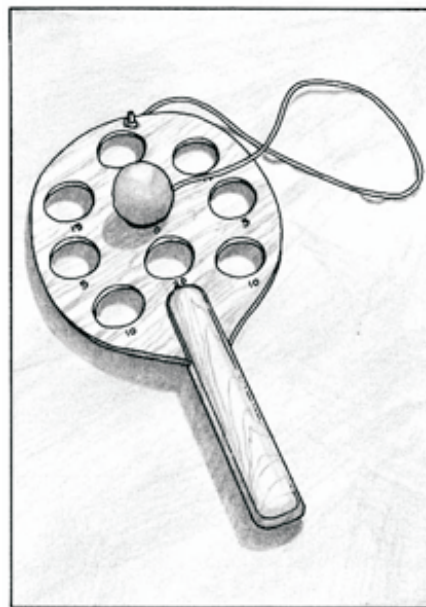
See next page for diagram



Everyone loves to give and receive gifts.  
**Oven Rack Push-Pull:** Hang this tool near your oven and use it to slide hot oven racks in and out without burning your fingers. The curved "Shaker" pattern and the simpler rectangular shape both work in the same way. Trace the pattern onto your wood and cut out. Drill a hanging hole at one end. Sand and then rub with mineral oil. Tie a leather string to the hanging hole.



**Bonum Board** is a game that tests your coordination. Try to catch the ball that is tied to the paddle. Each hole is given a different score. The goal is to toss the ball and achieve the highest score possible in 5 tosses.



**Catch-All Chest**

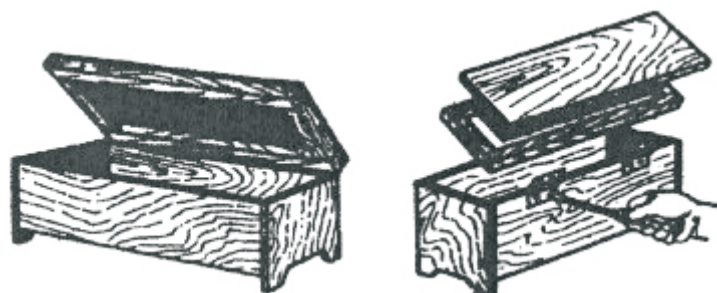
By Heart of America Council

**Materials:**

- 2 pcs. of 1/4" plywood 14" X 6" for front and back
- 1 pc. of 1/2" plywood 15" X 6" for cover
- 2 pcs. of 1/2" plywood 6" X 7" for sides
- 1 pc. of 1/2" plywood 14" X 5" for bottom
- 2 pcs. of 1" X 1" lumber 15" long for lid frame
- 2 pcs. 1" X 1" lumber 4" long for lid frame
- 2 small inexpensive hinges

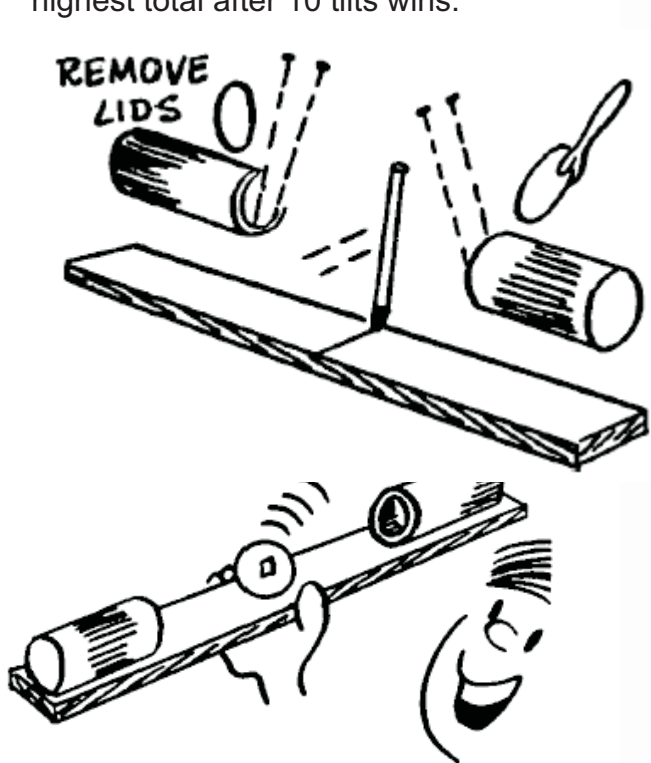
**First** attach the two pieces of 14" X 6" plywood to the 14" X 5" piece, using the smaller piece for the bottom of the box and the larger for the front and back, using wood screws and glue to join them. Now attach the 6" X 7" pieces for the sides as show in the diagram with screws and glue.

**For the lid,** use the 15" X 6" piece of plywood. Attach the two 15" pieces of wood with nails and glue so that they are flush with the edges of the plywood. Then fit in the 4" pieces so that they are flush with the 15" pieces and the plywood. Nail and glue. Attach the hinges as shown in the illustration.



### Can-Do Game

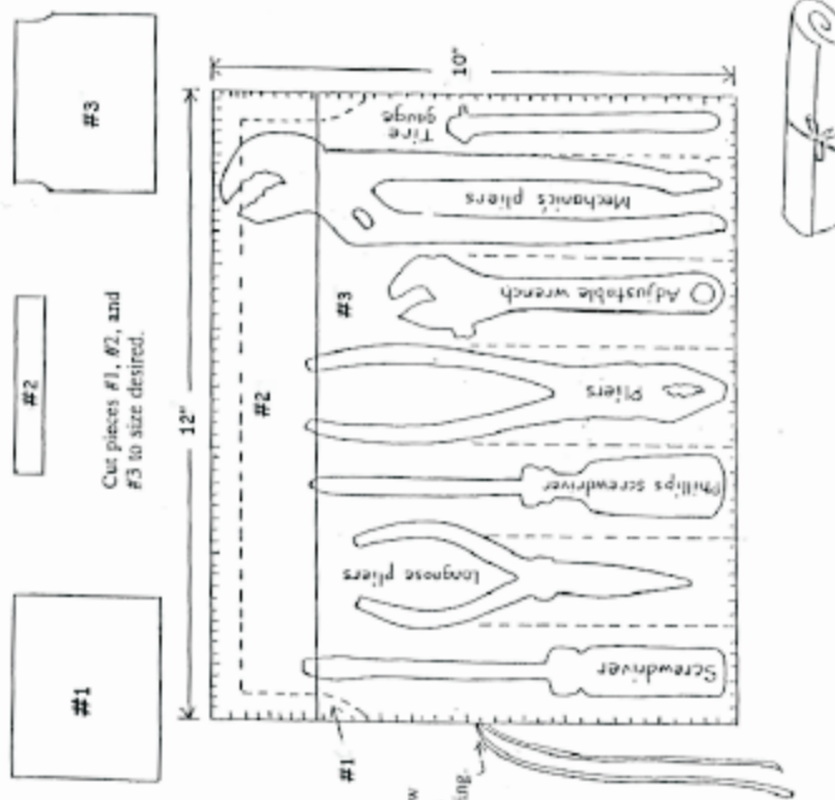
**You will need:** One piece of wood, 1/2" x 3" x 24".  
 2 pop cans, 2 1/2" x 5". Four nails, 1/2" long, or  
 glue. One ball, 1" diameter. Felt tip pen.  
 Draw a line in the middle. Remove lids from the  
 cans. Nail or glue the cans onto the board.  
 Any number can play. Place the ball on the center  
 then tilt the base to get ball to roll into a can. Give  
 1 point for every ball in the can. The player with the  
 highest total after 10 tilts wins.



### Tool Belt Holder Kit

This handy carrier will fold up small, but still carry  
 a great many useful things for any car trip. This is  
 an auto repair tool kit, but you can change the  
 tools to make a bicycle or boat repair kit. Make it  
 from denim or canvas.

1. Sew #2 to #1
2. Sew #3 to #1 Make seams as desired,  
 (seams make pockets).



### Whimmy Diddle

**Materials:** pocketknife, dowel rod 8" long, dowel  
 rod 4" long, dowel rod 1 1/2" long, hammer, 1" long  
 small nail, straight pin Sharpen one end of the 8"  
 dowel rod. Starting about 1 1/2" from the pointed  
 end, cut seven evenly spaced notches.  
 Carve the 1 1/2" dowel rod into a propeller.  
 Hammer the nail through the middle of the  
 propeller. Remove the nail. Push the straight pin  
 through the hole and into the sharpened end of the  
 long dowel rod. Leave some of the pin free so that  
 the propeller can spin. Sharpen one end of the 4"  
 long dowel rod. This is  
 the rubbing wand. Run  
 the wand briskly along  
 the notches towards the  
 propeller. If the propeller  
 Does not spin, try carving the notches slightly  
 deeper. Practice running the wand up and down  
 the notches until you can make the propeller spin  
 then change direction.

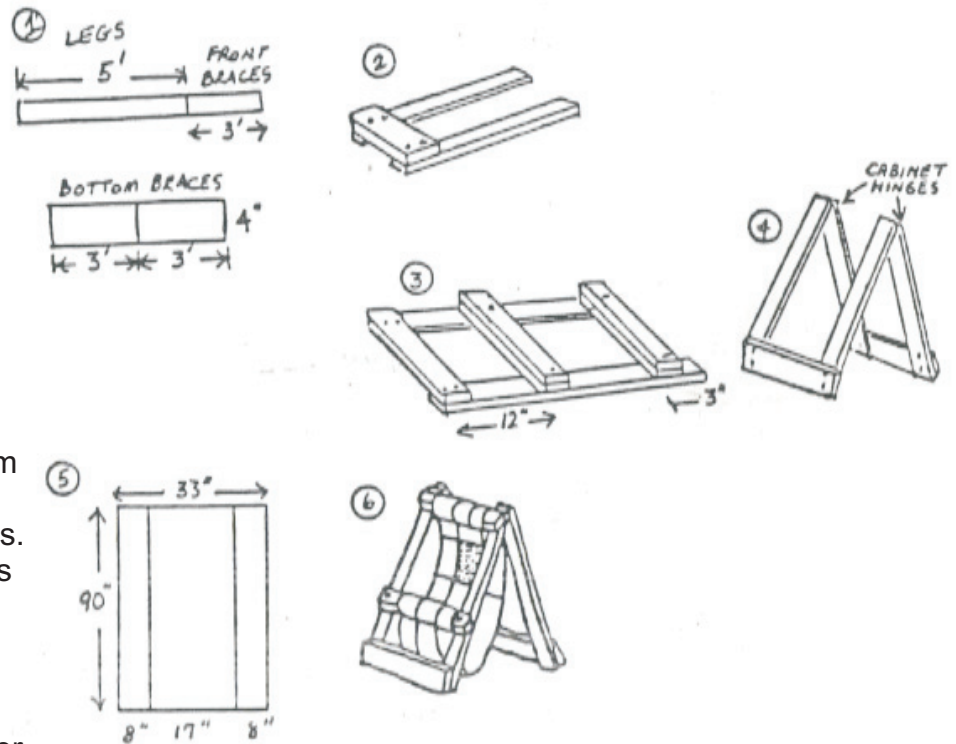


## Build a Baseball Catcher

### Materials:

Four 1" X 2" X 8" pine furring strips  
 One 1" X 4" X 6" white pine boards  
 Eight 1 1/4" wood screws  
 Four 3/16" X 3" stove bolts  
 Eight 3/16" flat washers  
 Four 3/16" wing nuts  
 Two 1 1/2" cabinet hinges  
 One 33" X 90" cloth (old bed sheet)  
 Wood sealer  
 Paint

1. Cut furring strips and pine boards.
2. Screw pine boards to legs at bottom braces.
3. Hold front braces in position on legs. Drill 1/2" hole through braces and legs at same time.
4. Join front and back halves with cabinet hinges
5. Cut out bed sheet to size. Make Strike zone on cloth with felt-tip marker.



### Stress Indicator Tie Slide

**Materials:** several 12-inch pieces of telephone wire, various colors

1. Put two or more pieces of wire next to each other.
2. Make a 1-inch loop near the center by twisting them together. (It's like putting a twist tie on a bread wrapper.) Or tie a square knot.
3. Wrap each piece of wire around a pencil until you get to the end of the wire.
4. Remove the pencil.
5. The loop is now the part that goes around your neckerchief; you can adjust it by twisting tighter or loosening it up a bit.
6. The coils can be scrunched together to tell people you're really wound up or stretched out to indicate that you're relaxed.

### Tie Slide Miniature Tool Set

By Great Salt Lake Council

Materials needed: Miniature tools, Leather tool kit, 1 - .5" x .5" PVC pipe Leather pieces, Lacing

1. Stitch or lash two pieces of leather together with the tools between the two.
2. Attach the PVC pipe to the back to form the loop.

### Soft Stone Carving

Let's try sculpture. When you mix plaster with vermiculite, your block of stone will stay soft for a long time, making it easy and fun to carve a Sculpture of your own. Vermiculite is a type of soil

available at garden stores. It comes in different forms; any type will work fine but the type that looks ground up works best. Never pour unused plaster down the drain.

For each boy, you will need: 1/2 cup of dry plaster of Paris. 3/4 cup of vermiculite. Small milk carton. Varnish (optional). Carving tools (nail, old spoon, stick, etc.; please note the plaster would ruin good, metal tools).

1. Measure the vermiculite and plaster into a disposable container. Mix well. Add about      cup of water. Stir until it looks like thick gravy.
2. Pour the plaster mixture into the milk carton. It will turn hard in about fifteen minutes. It will be ready to carve in a half hour.
3. Cover the work surface with newspaper. Peel away the milk carton. Now carve the soft stone anyway you want. Go slowly; scrape the plaster little by little.
4. If you don't finish carving, keep the stone in a plastic bag. The plaster will stay soft for two or three days.
5. If desired, brush with varnish, but wait until the sculpture is completely dry, about two weeks.

**Variation:** Instead of molding the plaster in a milk carton, pour it into a plastic bag. As it starts to harden, mold it into a rough shape you want for your sculpture. The plaster will be ready in about 30 minutes. The boys will enjoy this method. They need to be careful so they don't break the bag.

## Advancements

By Heart of America Council

### Immediate Recognition Beads Award Ceremony

Den Leader (DL) & Den Chief (DC)

**DL:** We would like to tell you the story behind these wonderful beads. The customs of awarding beads started in the ancient tribe of Webelos.

They were give to braves who did their best to help the tribe and others.

**DC:** Many moons ago, when the animal world was ruled by wolves and bears, the braves of the Webelos tribe feared these strong beasts.

**DL:** But some braves named (names of the boys being recognized), still untried, decided that the best way to live without fear was to learn to understand the creatures of the forest.

**DC:** So they went, disguised as animals, to live with the wolves and bears. The animals accepted them and all their brothers and called the "cubs," just as if the braves were their own. This was according to the Law of the Pack.

**DL:** For their bravery and friendliness to the beasts, they were give a leather thong with colored beads on it. It signified that he knew the ways of the tribe and did his best at everything without worrying if someone else did better. This is the law, which the tribe borrowed from the animals and had the "cubs" learn.

**(Ask Den to form a living circle and repeat the Law of the Pack. A living circle is formed by each boy putting his left hand in the center of the circle, extending his left thumb, and gripping the left thumb of the boy behind him as his thumb is gripped by the boy in front of him. The boys make the Scout Sign with their right hand.)**

**DC:** For doing your best in completing three achievements toward your (Wolf, Bear) badge, I award you (names) this thong and this bead. May you always obey the Law of the Pack.

### Special Recognition

Boys love to be recognized. With special recognition being given in a natural manner and at frequent intervals, Cub Scouts will not be tempted to seek recognition in less desirable ways. Special ceremonies in the den are less formal than those used in pack meetings. Den ceremonies rarely require anyone to read a part or repeat from memory. They are more impromptu. Encourage the boys to help create and develop new ceremonies rather than repeat

old ones. This is a chance to use your imagination and give recognition where it is due. Some of the events you may wish to recognize in den meetings are:

1. Birthdays. (Sing 'Happy Birthday,' have a birthday cake.)
  2. The arrival of a new member. (Sing 'Cub Scout Welcome Song' and have each boy tell something about himself to get acquainted.)
  3. A transfer to a Webelos den. (A good-bye and good luck type of ceremony.)
  4. A Webelos Scout's graduation into Boy Scouting.
  5. Special achievements in school, church, etc.
- We hope that the examples in this chapter will create in you the desire to use more special ceremonies and that you or some member of your pack will develop them.

### Akela's Test

Akela (Cubmaster), Baloo (Asst. Cubmaster).

**Baloo:** Akela had to pass a test to prove himself worthy of becoming chief. In Akela's tribe, all braves desiring to be chief were given four arrows. These were special arrows: once used, they shattered. Braves could eat only food they caught themselves. The brave who stayed out the longest would become chief. Let's listen to Akela relate his tale. Akela: I walked far from camp and stopped at the side of a clearing. I waited all night for a deer to come by. When one appeared, I took careful aim and shot. The meat of the deer provided me with food for many days. Its hide provided me with clothing.

**Baloo:** This showed that Akela had learned the basic skills to survive. It also showed the virtue of patience. The rank of Bobcat indicates the Cub Scout has learned the basic skills. Will our newest Bobcats come join us by the fire? Parents will join you later. (names) have earned their Bobcat badge.

**Akela:** I walked along the trail near the stream. There, I came upon a friend laying in the trail. He had used up all his arrows and was starving. I saw a squirrel in a nearby tree. I wanted to save my arrows for bigger game, but my friend was starving. So, I shot the squirrel for my friend.

**Baloo:** This showed that Akela learned the value of friendship and that he was unselfish. The Wolf badge indicates the Cub Scout has learned these new values on the trail of Scouting. Will our new Wolf Scouts join us by the fire? (names) have earned their Wolf badge.

**Akela:** As I followed the trail by the stream, I came face to face with a huge bear. It growled and started running toward me. I strung my bow, took careful aim, and when he was near, I shot and killed him. He provided me with food for many more days. His heavy coat provided me with shelter from the cold nights.

**Baloo:** This showed that Akela was brave. This is also why we honor the Cubs with the next level of accomplishment ... the Bear badge. Will the new Bear Scouts join us by the fire? (names) have earned their Bear badge.

**Akela:** The meat from the bear lasted for many days, but soon I had to continue on in search of more food. I came upon a wolf that had just killed a deer. The wolf saw me and ran off. I was hungry, but I had promised to eat only food that I had killed, so I continued on.

**Baloo:** This showed that Akela was honest. To earn the Webelos badge, the Cub Scout must learn the Boy Scout law which includes honesty. Will the new Webelos Scouts come join us by the fire? (names) have earned their Webelos badge.

**Akela:** I was many days from camp. I needed food to give me strength, so I tracked the wolf I had seen before. I strung my last arrow, took careful aim, but missed. I was scared because I had no food or arrows. As I started back to camp, I prayed to the great spirit. Suddenly, I saw the arrow; it was still whole! I followed the wolf's trail again. I took aim, pulled back the arrow and let it fly. This time the arrow found its mark! I now had enough food to return home.

**Baloo:** Akela learned that sometimes you have to ask for help. Our Cub Scouts sometimes need help also. Their Den leaders and parents provide that help. Will the parents of all these Scouts please come up and stand behind their son? (Provide time for the parents to assemble with the scouts.)

**Akela:** Congratulations to you scouts on achieving this difficult rank. You will now receive the symbol representing your new rank. (Akela presents the badges to the parents of the Cub Scouts and gives the Cub Scout handshake to each Cub Scout.) Would the parents place the cloth badge on the uniform upside down as is the custom of our tribe? (Parents attach badge upside down.) It may be attached right side up, permanently, after a good deed has been done by the scout. The pin is worn by you parents to signify the help you have given your son.

**Baloo:** Please join Akela and I in the Law of the Pack: The Cub Scout follows Akela.  
The Cub Scout helps the Pack go.  
The Pack helps the Cub Scout grow.  
The Cub Scout gives goodwill.

### **Arrow of Light – The Sunburst**

Begin by dimming the lights. Curtain opens and standing in a circle of lit candles is a costumed Indian Chief (talk to your OA Chapter) He begins by raising his arms and yelling:

**“SILENCE!** Many moons ago as the white man started to encroach on land once owned by the Indians. They found themselves unable to exist because they lacked the necessary skills to survive in that environment. The great chief saw this and decided to take braves from each tribe and teach them the skills necessary to survive in hopes that they would return to their people and teach them. He taught each brave skills in science, crafts, engineering, citizenship, geology and forestry. When he saw that his braves had successfully acquired these skills, he sent them back to their people to pass along their knowledge. Some tribes did not recognize these braves as leaders chosen by the great chief. When the great chief saw this, he decided they should have an emblem to separate them

from the other braves. He decided to use the arrow because it is straight and true, just as the lives of his braves should be. He decided to use the sunburst to act as a way to light their path. Tonight we have these young braves to receive the symbolic arrow and sunburst as the great chief of long ago gave to his braves.”

(Call each Webelos forward and list his Cub Accomplishments. Ask him to remain with you. After all are called forward...)

**Chief Says:** “Now that each of you have received your Arrow of Light, go forth into the world and teach others what you have learned.

With the Blue and Gold we need to take time to recognize our adults too!

**Plaques** – A plaque can be made out of any piece of lumber, linoleum, plaster of Paris or leather. They can be stained, lettered and have all sorts of attachments can be added.

**Measure Up** - Give a 6" ruler to the leader whose performance set the standard.

**Nuts about " \_\_\_\_\_ " Award** - Attach nuts to a plaque adding movable eyes and smiles, for the

Leader who had to be "nut" to take on a hard task.

**Handyman Helper Award** – A small hammer or saw to say thank you.

**Recognition – Den Leader** – Two Types of Homes

**Materials:** Appreciation certificates for each Tiger Cub Den Leader, Wolf and Bear Den Leader and Webelos Den Leader.

**CUBMASTER:** There is something which parents sometimes overlook when they consider the possibility of serving as den and pack leaders. There are two very different types of homes. In one type, everything will always be just so. The furniture is not likely to be marred, there will be little shouting or noise except from the boy who lives in that house; and even his shouting will be subdued and experimental... His mother will seldom be troubled by the shouts of other boys, because it is not likely that they will come there. And unless something unusual happens, that is the type of home it will always be. As the children who live in it become young men and women, the rug will never be rolled up for special occasions. They will take their noise and laughter where it is better understood and more welcome.

But there's another type of home. This type attracts the friends of the children who live in it. They would rather bring their friends there than join them elsewhere. It is a home where children are welcome, where they learn to take care of the furniture rather than preserve it through lack of use. It's a home, which later will attract young people. It's true – the first type of house will be peaceful, because it will be empty. Too empty... too peaceful... too quiet.

But there are more wonderful things to be sought after in life than peace and quiet. And besides, if you live in the second type of home, it does not mean that all of your own personal comforts and pleasures must be sacrificed. Lasting satisfaction comes from the knowledge that, as each day goes by, you are guaranteeing your children's future memories of their home will be happy ones. Most den leaders want the second type of home, and they have started to build now, because in a year or two it will be too late. That's why Cub Scouting is not all giving on their part. They'll receive a finer home life and stronger family because of it. (call forward all Den Leaders)

These people are making one of the finest possible contributions to our community by serving as den leaders. They not only deal with boys, but with parents too. They are strengthening the life of our community by enriching the lives of the families who

live in it. They are teaching boys to respect their homes and their parents, and they are helping parents understand their boys better by doing things with them. Few community services are more important than this. Please accept these certificates as a small token of our gratitude for your help in Cub Scouting, and the thanks of all the boys you are helping by your service. Thank You.

## CLOSING CEREMONY

### Bridge Builder

An old man going a lone highway,  
Came at the evening, cold and gray,  
To a chasm vast and wide and steep  
With waters rolling cold and deep.  
The old man crossed in the twilight dim,  
The sullen stream had no fears for him;  
But he turned when safe on the other side  
And built a bridge to span the tide.  
"Old man," said a fellow pilgrim near,  
"You are wasting your strength with building here  
Your journey will end with the ending day,  
You never again will pass this way;  
You've crossed the chasm deep and wide,  
Why build you this bridge at even tide?"  
The builder lifted his old gray head,  
"Good friend, in the path I have come," he said,  
"There followeth after me today  
A youth, whose feet must pass this way;  
The chasm that was as naught to me,  
To that fair-haired youth may a pitfall be.  
He too must cross in the twilight dim –  
Good friend, I am building this bridge for him.  
By Will Allen Dromgoole

### Webelos Athlete

By Heart of America

**Fitness Circle:** Form as large a circle as space permits. Try to do this outdoors on a camp out, in an open field. Webelos (and parents!) face the same direction. Give instructions for various activities as follows:

Start walking in a circle, and keep walking between these exercises.

Start hopping.

Make yourself as small as possible and continue walking.

Make yourself as tall as possible and continue walking. Now reach your hands over your heads. Send your knees slightly, grasp your ankles, and continue walking.

Walk as if the heel of one foot and the toes of the

other were sore.

Walk stiff-legged.

Squat down and jump forward from that position.

Walk on hands and one foot with the other leg held high, imitating a dog with a lame foot.

Walk forward at a rapid pace (don't run), while swinging the arms vigorously.

Take giant steps.

Walk forward, raising your knees as high as possible with each step. '

Run, lifting your knees high.

Walk on your hands and feet.

**High Jump Test:** Tack a yardstick on the wall just the height you can reach with your feet flat on the floor. Jump with a piece of chalk in your hand to mark the wall at the highest part of the jump.

**High Kick Test:** Wear rubber-soled shoes to prevent slipping. You should be able to kick higher than your head.

**Obstacle Course:** These are some suggestions on how to layout an obstacle course, depending on the abilities of the boys.

Missed obstacles have to be repeated.

1. For hand-over-hand crossing obstacle, use a 12' ladder raised 6' above the ground.

2. Old tires from a service station placed flat on ground for broken field running obstacle.

3. Three sawhorses to jump over and under.

4. Tarp, 6'x8' (or larger) on ground for somersault.

5. Curved 2' wide path, marked by string or by other means. Runner must stay in bounds.

6. Wooden 2x4, 10' long, laid on the ground with narrow side up to cross without losing balance. Peg the board at intervals to prevent it from wobbling.

7. Large carton or crate to crawl through.

8. For hand-over-hand climb, use 9' knotted rope or broomstick rope ladder.

9. Series of 2' and 4' high boxes to dive over head first, landing on hands.

10. Ladder laid of bricks or boards about 6" off of the ground. Run fast through the ladder rungs.

11. Marked path to the finish line.

## Webelos Engineer

### The Strength of Hollow Tubes

To demonstrate the strength of hollow tubes, try laying a brick on a styro foam cup or paper towel tube laying on its side. Place another cup or tube on its rim and add bricks (2 to 3) until it crushes. Glue four cups together rim to rim and bottom to bottom with white glue and allow it to dry. Place bricks (usually four) on top until the structure crushes. Demonstration shows that use of columns

in engineering and bridges

### Simple Levers

#### Materials:

Length of wood Glue

Small wooden dowel Ruler

Strips of colored paper Pencil Matchbox

Weights (washers or coins)

**How It Works:** A Simple lever is a straight rod that rests on pivot or fulcrum. When you push one end of the rod down with an effort, the other end goes up, lifting the load.

Try making this model seesaw and find out for yourself how levers work.

1. Mark the length of wood with paper strips spaced about 1-inch apart.

2. Glue the dowel to the matchbox to make a pivot.

3. Place the center of the length of wood on the pivot so that the two ends balance.

#### Now try some experiments with the weights

1. Put a weight (the load) three marks from the fulcrum.

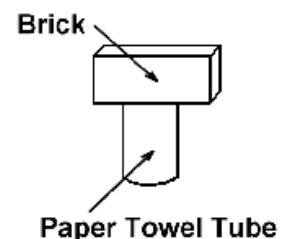
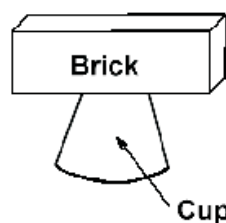
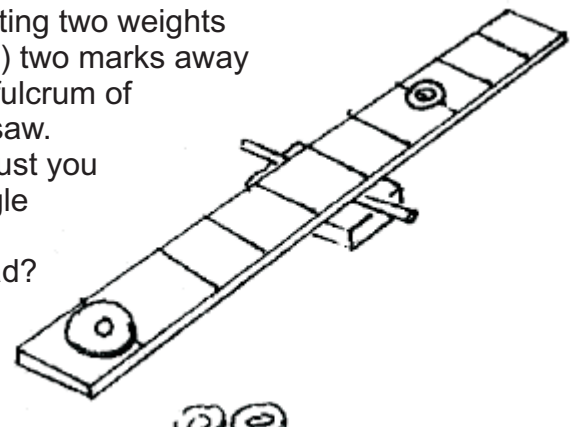
2. Where must you place another weight (the effort) to lift the load?

#### More load for less effort!

1. If the load is close to the fulcrum, it's easier to lift and you don't need so much effort. You may have noticed this if you've ever played on a seesaw - you can lift someone heavier than yourself if they sit nearer to the middle than you do.

2. Try putting two weights (The load) two marks away from the fulcrum of your seesaw.

Where must you put a single weight to lift the load?



**Bridges and Machines**

By Greater St. Louis Area Council

Use a word from this list to fill in the correct answer.

Catapult	Beam Bridge	Truss Bridge
Arch Bridge	Plank Bridge	Pier Bridge
Block and Tackle	Suspension Bridge	

1. A flat surface over two supports:  
\_\_\_\_\_
2. A flat surface over three or more supports:  
\_\_\_\_\_
3. A flat surface over an arced support:  
\_\_\_\_\_
4. A flat surface with turned up edges:  
\_\_\_\_\_
5. A bridge with sides made up of a series of triangles: \_\_\_\_\_
6. A bridge that appears to hang from strong strung cables: \_\_\_\_\_
7. A pulley(s) and rope or cable:  
\_\_\_\_\_
8. A slingshot or other device used to project something: \_\_\_\_\_

**The Right “Man” for the Job!**

Use the word from this list to fill in the correct answer.

Aeronautics	Chemical	Computer	Mechanical
Agricultural	Electrical	Physical	Industrial

1. An engineer who designs plants to make water safe to drink: \_\_\_\_\_
2. An engineer who designs communication and information systems: \_\_\_\_\_
3. An engineer who test new processes and checks one ones in a chemical plant: \_\_\_\_\_
4. An engineer who plans new circuit and directs workers in an electrical plant: \_\_\_\_\_
5. An engineer who designs and tests new equipment for industry: \_\_\_\_\_
6. An engineer who designs and tests equipment for farmers and ranchers: \_\_\_\_\_

**Answers to Bridges and Machines**

1. Plank bridge 2. Pier Bridge 3. Arch Bridge 4. Beam Bridge 5. Truss Bridge 6. Suspension Bridge 7. Block and Tackle 8. Catapult.

**Answers to Right “Man”** 1. Agricultural 2. Computer 3. Chemical 4. Electrical 5. Industrial 6. Mechanical

**WEB SITES****These sites are current as of 1-28-06**

[Http://library.thinkquest.org/11686/?tqskip1=1&tqtime=0810](http://library.thinkquest.org/11686/?tqskip1=1&tqtime=0810) Build it and Bust it design and test your own structures and share what you learn with others.

[Http://pbskids.org/dragonflytv/index.html](http://pbskids.org/dragonflytv/index.html) Learn about DFTV's incredible investigations. Body and Brain, Earth and Space, Living Things, Matter and Motion, Technology and Invention

[Http://www.scitoys.com/](http://www.scitoys.com/) Science toys you can build.

[Http://www.freeww.com/yardart.html](http://www.freeww.com/yardart.html) Free plans for garden and yard art including outdoor Christmas decorations, outdoor Halloween decorations, real sleigh, garden stakes, yard art animals and insects and more yard art!

**These sites are from Baloo’s Bugle and they are too good to miss.**

[Http://www.exploratorium.edu/exploring/paper/airplanes.html](http://www.exploratorium.edu/exploring/paper/airplanes.html)

<http://www.exploratorium.edu/exploring/paper/airplanes.html>

<http://www.discoverengineering.org/>

<http://www.kids.net.au/encyclopedia-wiki/en/Engineering>

<http://www.midnightscience.com/project.html>

<http://pbskids.org/zoom/grownups/engineering/>

<http://www.coloring.ws/construction1.htm>

[http://www.dltk-kids.com/recipes/construction\\_snack.htm](http://www.dltk-kids.com/recipes/construction_snack.htm)

<Http://www.matsuo-bridge.co.jp/english/bridges/index.shtm>

<http://pbskids.org/zoom/sci/>

**Wood working books for KIDS!**

**Woodworking For Kids** 40 projects ISBN 0-8069-0430-5

**Woodworking with Kids** more than 20 projects ISBN 1-894827-26-0

**Sunset Kid’s Places to Play** Would have loved this as a kid! ISBN 0-376-01059-2

**Woodworking Projects** 40 projects ISBN 0-80069-0803-3

**Black and Decker The Complete Guide to Outdoor Wood Projects** 50 Projects EVEN a 46 ½ “ high-38 ½”wide and 97 “ long Bridge for CROSSOVERS! ISBN 1-58923-202-X