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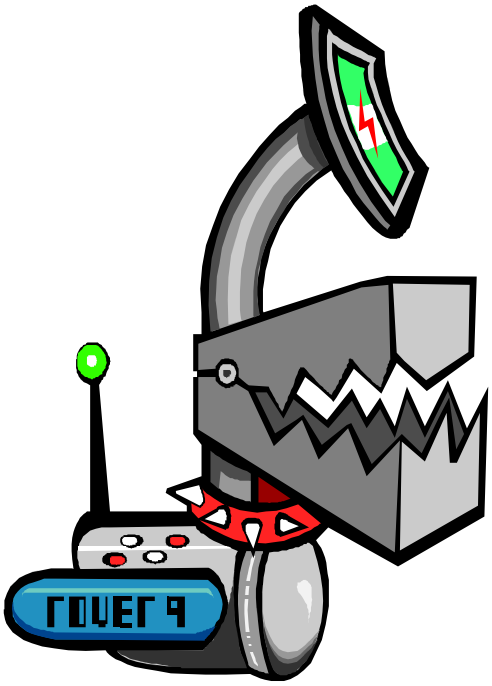
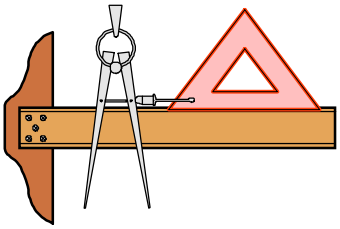


Why Does It Do That?



REMINDERS: Cub Scouts need to learn to "Help other people". Has your den or pack taken the time to do a **Service Project** yet this year? Look for some terrific ideas for service projects on p. 236 of this Pow Wow Book.

TIGER DEN LEADER HINTS

Tiger Cubs can work on the science Belt Loop. They can also work on Achievement 5D 'Making Leaf Rubbings" as they discover "Why does it do that?"

DEN LEADER HINTS

Conservation Good Turn #1-Planting
Science Belt Loop
Weather Belt Loop

Tiger
E30 Plant a Seed
E44 Dairy Products
E45 Fresh Baking

Wolf
E5 Sparetime Fun
E8 Machine Power
E15 Grow Something

Bear
A6 Take Care of Planet
A21 Build a Model
E1 Space
E2 Weather
E4 Electricity
E6 Aircraft
E7 Things That Go
E15 Water & Soil Conservation.

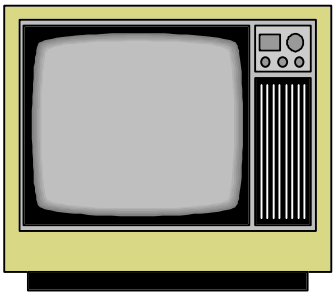
BLUE AND GOLD THEME IDEAS

Menu -'Genius' stew
'Experimental' Jell-O salad
Shocking' lemon tarts

Activities - Pack science fair
Star gazing
Science demonstrations

Guest Speakers - Someone from the Hansen Planetarium
Local scientist or doctor
Electrician

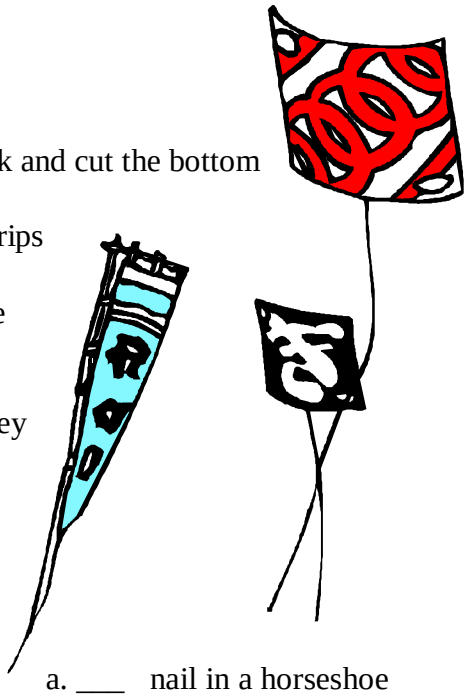
GATHERING/ PRE-OPENERS



MACHINES, HOW DO THEY WORK?

- Let your boys and families have fun learning how machines work.
- Bring an old adding machine, computer, television., radio, or VCR to pack meeting.
- Let the Scouts take these apart to see what's inside and how they work. (Thrift stores have many of these items for just a few dollars. If it' s broken? Can your boys fix them?)

WIND SOCKS



- Before pack meeting get small white paper lunch sack and cut the bottom out.
- Cut comic strips from the newspaper into one inch strips about twelve inches long.
- Bring a stapler and crayons for the Scouts to decorate their bags.
- Have each boy staple the strips around the bottom of their bag and give them a string to tie to the top so they can hang their ' windsock' outside.

GUESS WHAT?

1. What is full of holes yet holds water?
2. What word contains the vowels in their proper order?
3. What goes around all day with its head down?
4. Why is the nose in the middle of the face?
5. Why is a schoolroom like an old car?
6. What occurs once in a minute, twice in a moment, but not at all in a thousand years?
7. Why is the heart of a tree like a dog' s tail?
8. Which is the largest room in the world?
9. What' s the best way to keep water from coming in your house?
10. Why is a room full of married people like an empty room?
11. Why is a quarrel like a bargain?
12. What is the difference between a hill and a pill?

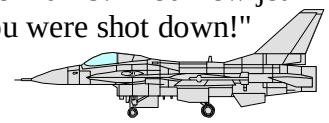
a. ___ nail in a horseshoe
b. ___ no single person in it.
c. ___ don' t pay your water bil
d. ___ room for improvement.
e. ___ facetious
f. ___ one is hard to get up, the other' s hard to get down
g. ___ The Letter M
h. ___ Crank in front and noise all around.
I.___ Sponge
j. ___ Farthest from the bark.
k. ___ Because it takes two to make it.
l. ___ Because it is the scenter.

ANSWERS: 1-I, 2-e, 3-a, 4-L, 5-h, 6-g, 7-j, 8-d, 9-c, 10-b, 11-k,

OPENING, CLOSING, AND FLAG CEREMONIES

"WHO PACKS YOUR PARACHUTE"-- CUBMASTER MINUTE

Charles Plumb, a U.S. Naval Academy graduate, was a jet pilot in Vietnam. After 75 combat missions, his plane was destroyed by a surface-to-air missile. Plumb ejected and parachuted into enemy hands. He was captured and spent 6 years in a communist Vietnamese prison. He survived the ordeal and now lectures on lessons learned from that experience. One day, when Plumb and his wife were sitting in a restaurant, a man at another table came up and said, "You' re Plumb! You flew jet fighters in Vietnam from the aircraft carrier Kitty Hawk. You were shot down!" "That's right; how did you know that?" asked Plumb.



"I packed your parachute," the man replied.

Plumb gasped in surprise and gratitude. The man pumped his hand and said, "I guess it worked!" Plumb assured him, "It sure did. If your chute hadn' t worked, I wouldn' t be here today."

Plumb couldn' t sleep that night, thinking about that man. He says, "I kept wondering what he might have looked like in a Navy uniform and how many times I might have seen him and not even said "Good morning. How are you?" or anything because, you see, I was a fighter pilot and he was just a sailor.

Plumb thought of the many hours the sailor had spent on a long wooden table in the bowels of the ship, carefully weaving the shrouds and folding the silks of each chute, holding in his hands each time the fate of someone he didn' t know. "Who' s packing your parachute?" Everyone has someone who provides what they need as they face daily challenges. Take the time to say hello, please or thank you, congratulate someone on something wonderful that has happened to them, give a compliment, or just do something nice for no reason.

CAMPFIRE LIGHTING CEREMONY

Have the wood and crumpled newspaper for a campfire ready. Each person brings in a lighted candle, says their part, waits until all read, and then they all reach down together and light it.

#1 I am light. My flame reminds us to try to find new ways to be helpful.

#2 I am friendship. My flame teaches us how to become a friend to other people

#3 I am restraint. My flame is like the rocks and sand that surround the fire. It reminds us to have restraint and keep tempers and tongue in check.

#4 I am the rising smoke. As I rise from our campfire, our eyes turn skyward as we envision God.

#5 I am love. My flame makes the campfire burn brighter and lovelier. Love grows toward parents and families when it is returned, and it makes our own lives more joyful.

#6 I am fun. We learn that most good things in a life, well lived, are fun.

#7 I am the Scout Spirit. It stands for the brotherhood of Scouting all over the world who are preparing themselves to become good citizens who are physically fit, mentally awake, morally straight.

CM: Now we will light the campfire *[all put candles into fire, which lights]*. We have learned things that make our lives more meaningful.

ADVANCEMENT CEREMONIES

Equipment needed: 1 potato and several straw

Cubmaster: *(to boy receiving his award)* (boy 's name) I understand that you have worked hard to receive the *(award name)*. We are all very proud of you tonight. I want to see if you have done your best. Why did you want to receive this award? Was it hard?

Because you have worked so hard and accomplished this, I am going to show you a strange phenomenon.

TAKE A POTATO: Take a potato and a straw. Tell the boy you are going to push the straw into the potato. Try 1 or 2 times without making it work
Put your finger over the end of the straw and push it into the potato. Explain to the boy this works because you have tried and worked on it, just like he has tried and worked on his Cub Scout program. Congratulate him and give him the award.

BAFFLE THE BOYS

Call forward the boys receiving awards. Explain to them that sometimes we have to work very hard to earn an award. Sometimes the things are easy, but more often they are difficult and take quite a bit of time. Ask them, "Why do you suppose that is?"

Tell them to watch you (Make a big production of this). Put a big glass 1/2 full of water on a table.
Place a regular (not foil) pie tin (facing up) on top of that - glass of water so you could place something in the pie tin. Put the cardboard roll from a toilet tissue roll in the center of the pie tin. Put a boiled egg on top of the toilet tissue roll.

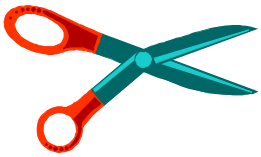
Place a broom with the bristles touching the floor tightly against the table. Put your foot on the bristles to hold them down. Pull the broom handle toward you and flip the broom handle so it hits the table fairly strongly (remember your foot is holding down the bristles). The egg will fall into the water.

Ask the boys, "What makes it do that?" Present awards.

Eskimo cheer: Wrap arms around yourself and say, "B, r, r, r."

Seal of approval: Place arms together from elbows to wrists, then slap hands together while barking like a seal.

GAMES



MAGIC FUNNEL

Materials: Table tennis balls,
circle of thin cardboard, or cardstock,
(4 inches across)
Flexible drinking straw
Glue
Tape
Scissors

Take the cardboard circle and cut a slit from the edge to the middle. Curl the circle into a cone. Tape the edges together inside and out.

Strip the tip off the cone. Cut a piece of drinking straw 1 ½ inches long and push it through the hole so it just goes down inside. Glue it in place.
Put the table tennis ball into the funnel. Blow hard., pointing the funnel up. Keep blowing and point the funnel down. What happens to the ball?

What Happens? The air that you blow is moving faster than the air on the other side of the table tennis ball. Fast moving air has less pressure than slow moving air so there is more push at the wide end of the funnel. So the ball stays in the funnel.

WATCHING SOUND MOVE

Materials: Plastic bottle (2 liter pop bottle)
plastic bag,
rubber band,
scissors
small candle

Make certain this activity is done under adult supervision.

Cut the base off the plastic bottle. Then cut a piece from the plastic bag to cover to end of the bottle.

Stretch the piece of plastic tightly over the end of the bottle. Secure it with the rubber band.

Light the candle. Then hold the bottle with its neck about 1 inch away from the candle

Now tap the piece of plastic with your fingertips. What happens to the flame?

When you tap the piece of plastic you make tiny particles in the air beside it to vibrate. These vibrating particles make the particles beside them vibrate too. The vibrations travel through the bottle and disturb the flame.

SKITS AND STORYTELLING

I FIXED IT

Tommy: I can fix it!
Dad: Be careful son.
Wrench: Oh, nuts!
Screwdriver: Straight or Phillips?
Bike: Drrrinnngggg.
Pliers: Hold me tight

TOMMY had a problem. His BIKE was broken. Now TOMMY and his dog, Ralph, could not ride to the park to play with his friends. But TOMMY, being a very smart Cub Scout, knew how to fix the BIKE. However, he needed a WRENCH, a pair of PLIERS, and a SCREWDRIVER. So he asked his DAD if he could borrow a WRENCH, a pair of PLIERS, and a SCREWDRIVER. His DAD said, 'S ure, but make sure you take care of them and return them as soon as you're finished." "I will DAD, "said TOMMY. So TOMMY and Ralph went into the back yard to fix his BIKE with the WRENCH, PLIERS, and SCREWDRIVER. Since TOMMY knew how to use a WRENCH, a pair of PLIERS, and a SCREWDRIVER, the BIKE was fixed in no time and ready to ride. Ralph helped all he could. TOMMY took a quick spin to make sure everything was all right and then called Ralph to go with him to the park. "Oh, I'd better return these tools to DAD before we go," said TOMMY. But when he reached for the tools, the PLIERS and SCREWDRIVER were there, but the WRENCH was missing. "Oh no! What would DAD think?" said TOMMY. He looked around for the WRENCH. He looked in the bushes, but no WRENCH. He looked all over the yard, but no WRENCH! Finally, he noticed Ralph digging in the garden. TOMMY went over to Ralph and there was the WRENCH in his bone hole. So the WRENCH was found. And TOMMY was able to return the WRENCH, the PLIERS, and the SCREWDRIVER to his DAD. Everyone was happy the BIKE was all fixed, except Ralph!

WHY DOES IT DO THAT?

Cub 1: Hey, George, what are you doing?
George: Mrs. J asked me to vacuum the den meeting room, since I got here early. The problem is, the darn vacuum won't work.
Cub 1: Well, if it won't work, let's check the wheels. (Check wheels, they work. Enter Cub 2))
George: Mrs. J wants the den room vacuumed, but it doesn' t work.
Cub 2: Have you checked the vacuum intake? (Turn it over, check the intake, it' s okay)
Cub 3: You guys look like you have some trouble. What's up?
George: Well, Mrs. J wants the den room vacuumed, but the vacuum won' t work.
Cub 3: Well, I would suggest you try the switch. (Try it; it works.)
Cub 4: Hey guys, what happening?
ALL CUBS: We'll play with you later. We've got to get this vacuum working.
Cub 4: I can see what is wrong and I can fix it!
ALL CUBS: Sure you can!
CUB 4: (walks over and plugs in vacuum)

THEME CRAFTS

DANCING SHAPES

You Need: small box with a lid (i.e. a check box) • plastic sheet protector • colored tissue paper •

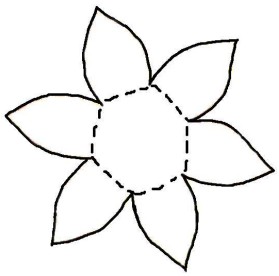
Cut a window in the lid leaving ½–¾ inch edge. Cut sheet protector to fit inside lid, glue in place. Use a craft punch or cut small shapes out of tissue paper and place them in the box. Rub your finger quickly back and forth over the plastic, and watch the shapes dance! Rubbing the plastic on carpet can recharge the static electricity.

PINHOLE CAMERA

You Need: shoe box • black paper • tracing paper(parchment) • pin • tape •

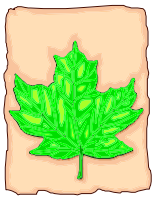
On one end of the box, cut a round hole 1½ inch diameter. Cut a large rectangular hole in the other end and cover it with tracing paper to make the screen. Cover the round hole with black paper. Make a single pinhole in the center of the black paper. Tape the lid on the box so that no light gets inside. Hold the camera with the pinhole pointing toward a bright lamp or window. You should see an upside-down image on the screen. *(Put a blanket over your head and the screen end of the camera to block out light)*

BLOOMING FLOWER



Copy flower pattern (at right), color if desired. Cut out and fold the petals in toward the middle. Set flower on water and watch it bloom.

SUN ART



You Need: cookie sheet • small items with interesting shape •blueprint paper • a bright sunny day .

While indoors, put the blueprint paper on the cookie sheet. Arrange small objects on the page in an interesting way. Set the cookie sheet in direct sunlight for several minutes, then bring it inside, and remove the objects. You will see prints of the objects on your paper! For added fun, try these objects: paper clips, pencils, buttons, a comb, leaves, flowers, small toys, tools, keys, perfume bottles, lace, ribbon, nails, screws, coins, elastic bands, stencils, paper shapes, photo negatives, letters & numbers, etc. See what else you can find! (Note: Blueprint paper is available at school supply stores or may be ordered from S&S Crafts and, sometimes, Oriental Trading.com)

ZIPLOCK TERRARIUM

You Need: gallon-size Ziploc bag • sheet of paper towel • wild bird seed • tape •

Fold the paper towel in half, then in half again. Wet the paper towel thoroughly, and place in the Ziploc bag. Add some wild bird seed. Zip shut. Tape it to the window, and check daily to watch the seeds grow. Open the bag when the seeds reach the top. After opening bag, keep adding a little water to keep paper towel damp.

HOLIDAY AND SEASONAL CRAFTS

SHAMROCK PIN

Glue 4 heart shapes together, then glue fifth heart on top. Paint with green paint. Add green glitter while paint is wet.

POT OF GOLD

Take 2" clay pot and paint black. Take a one and a half inch Styrofoam ball and cut in half. Paint one half of styrofoam ball with gold metallic paint, then glue it into clay pot. When the paint is dry, glue gold sequins, without holes, onto the top of the painted ball. If wanted take red, orange, yellow; green, blue and purple pipe cleaners. Glue together and stick into the styrofoam ball to make a rainbow.

LEPRECHAUN PIN

Use ' woodsieswood shapes from Forester to create Leprechaun. Use square and medium oval shape for hat - paint green. Across top of oval, glue a strip of green metallic pipe cleaner. The face is a circle painted flesh colored. The eyes can be wiggle eyes, or just painted on using black and white paint. The body is a large oval painted green. The bow can be done with gold or green ribbon, or you can use green and gold metallic pipe cleaners. Glue together with Tacky Glue or use a hot glue gun.

ST. PATRICK'S DAY BANNER

Take 1/2 yd. white felt and cut it into a long triangle. Cut large, medium and small shamrocks from green felt, and glue with Tacky Glue. Outline the shamrocks with Scribble, Tulip, or Jones Tone Glitter gold fabric paint and let dry. Use Glitter Gold and Glitter Green fabric paints to make squiggles around the shamrocks. When done, glue banner on dowel. Finish with green 1/2" ribbon to use as a hanger.

BEADED ORNAMENT--(Decorations all year round!)

Use 1 pipe cleaner/chenille stem and cut into thirds. Hot glue in the center. Put on a faceted bead, push towards center of each pipe cleaner, then add a pinwheel bead. You can arrange them in any way you desire till pipe cleaners are filled. Glue on the last bead and trim off excess with wire cutters or scissors. Under the last bead on one of the pipe cleaners. tie a gold string to use as a hanger for the ornament.

SONGS, CHEERS, AND SPARKLERS

SONG – WHY?
(Tune – Rock a Bye Baby)

Why does it do that?
Why does it go?
When the wind blows it,
Why does it twirl,
When the cogs turn,
The hands go around,
Oh! Why does it do that?
I'll figure it out.

SKIT: "THE INVISIBLE BENCH"

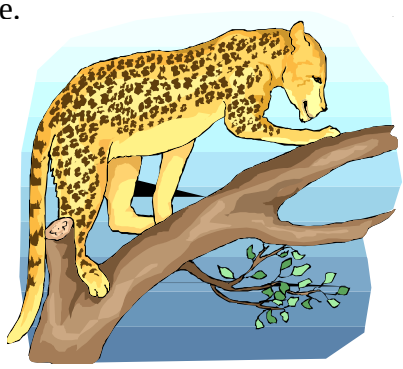
#1—Enters and squats down like they are sitting on a bench
#2—[Enters] What are you doing?
#1—Sitting on this invisible bench.
Want to join me?
#2—Sure *[squats down beside #1]*
#3—*[Enters}* Hey, what's going on?
#2—We're sitting on this invisible bench,
want to join us?
#3—Okay. Looks like fun. *[Squats by them]*
[Same for any number of other people]
LAST PERSON—What are you doing?
ALL SITTERS—We're sitting on this invisible bench.
LAST PERSON—The invisible bench? I moved it over there this morning. *[Points to other side of room].*
ALL SITTERS—Oh no! *[Scream and topple over]*

JOKES

1. Why do they use knots instead of miles on the ocean? They've got to keep the ocean tide.
2. Why do lazy Cub Scouts have to go to school? Because the school can't come to them.
3. What do you call a sleepy bull? Bull dozer.
4. How do you keep a bull from charging? Take away his credit card.
5. What holds the sun up? Sunbeams.
6. Where do you find a lost belly button? At the Navel Reserve.

RUN ON : "CHANGE"

Cub 1 – Hey den leader, can you change a quarter for me?
Den leader – Sure, be glad to!
Cub 1 – Great! Then how about changing this one into a dollar!

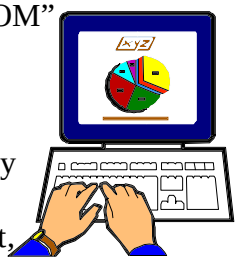


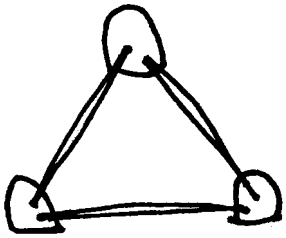
RUN ON: "LEOPARDS"

Cub 1 – *Looking through binoculars*, "I just spotted a leopard."
Cub 2 – Don't be silly, they grow that way!

APPLAUSES/CHEERS

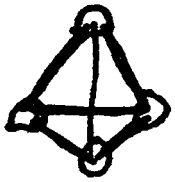
1. CRAZY SCIENTIST-- Pretend to be stirring in a vial or bottle in one hand, then with other pretend to pour something into the bottle you were stirring. All the time laughing something like: "Ha, Ha, I've done it", then yell, "BOOM"
2. COMPUTER-- Does not compute, does not compute.
3. GENIUS-- Throw hands in air in triumph and say excitedly, "I made it! I made it!" What is it? What is it?
4. GENIUS QUIET CLAP-- Clap hands together four times and then loudly say, "How great I am, how great I am", Genius! Genius!"
5. LIGHT GLOBE-- Pretend to screw in a light bulb, while saying, "Bright, bright, bright!"
6. IDEA-- Put finger on side of face and close eyes as if thinking hard, suddenly jump up, open eyes real wide and yell, "That's the best idea yet!"



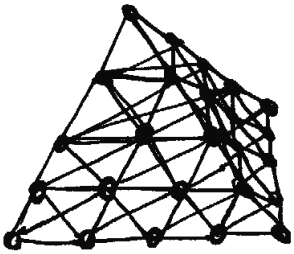


CUBS IN THE KITCHEN

GUM DROP TETRAHEDRON

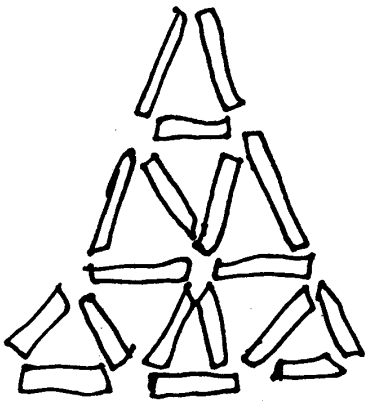


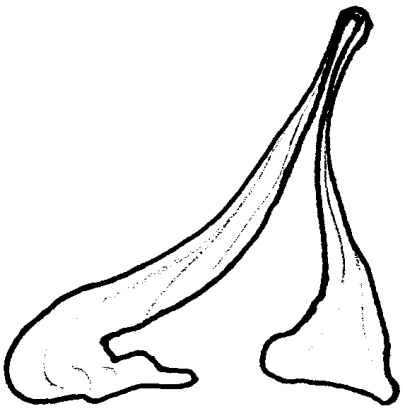
Did you know the triangle is stronger that the square? It's also the building block of the Ferris Wheel, geodesic dome, and the tress bridge. Let your cubs prove it with gumdrop and toothpick constructions. Empty a bag of gumdrops, put out a package of toothpicks, and see what grows from your boys' imaginations.



EDIBLE MATH

How do they do that? This Chinese stick game can be changed to fit even the hungriest of Cub Scouts. Use 18 pretzels, carrots, or celery sticks. Have the boys lay their sticks out into nine equilateral triangles as shown in the diagram. The challenge is to remove three sticks to change the pattern to six equilateral triangles. There are several solutions; one is shown here.





GAK

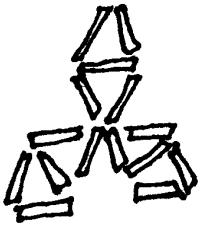
A very cool substance that resembles silly putty, and the more modem counterpart Gooze ™

Formula 1
3/4-cup warm water
1 cup Elmer's glue
Several drops food coloring

Formula 2
4 teaspoons borax
1 3/4 warm water

Stir formula 1 in a medium bowl. In large bowl, mix up formula 2., but DON'T STIR. Let it sit for one minute, then lift the now congealed Gak out of the bowl. Divide up and keep in re-closeable sandwich bags.

(Gak may stick to certain fabrics, have boys keep it in plastic bag when not playing with it. Since borax is toxic in large doses, keep Gak away from children younger than three.)

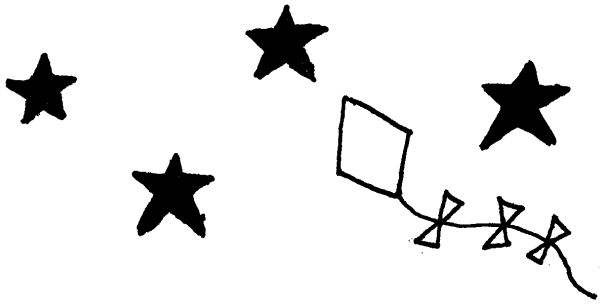


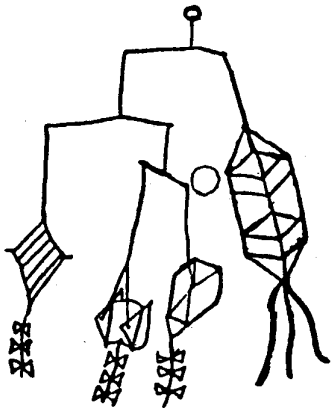
THEME MIDWAY

MINI KITE MOBILE

Materials:
Various colors of tissue
White glue or spray adhesive
Scissors, glue, markers
Plain white typing paper
Toothpicks or bamboo skewers

Directions:
Glue tissue paper to typing paper, using either thinned (with water) white glue, brushed onto paper or use spray adhesive (available at craft stores). Cut out pieces for several "mini" kites from glued paper. You can use the pictures in the "Wolf Elective 5" as patterns or let the boys make their own. Assemble kites using toothpicks or skewers and glue. Hang as a mobile.

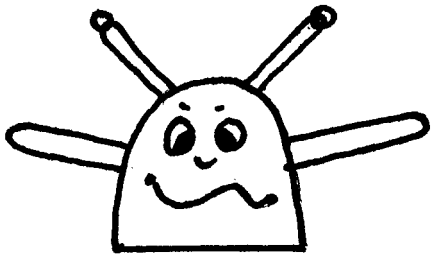


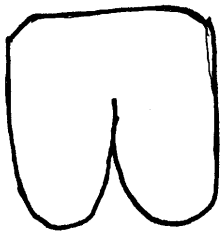


OUTER SPACE EGG CREATURES

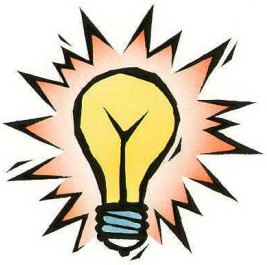
Materials:
Egg shells
White glue
Thin sticks
Nail scissors
Heavy paper or cardboard
Paint

Directions:
Crack an egg in two pieces and use the larger portion of the shell. Trim off the excess broken edge of the shell with nail scissors. Strengthen the cut edge by applying a small amount of white glue around the edges. Cut a heavy paper or cardboard base in the shape of large feet. Glue the open end of the eggshell to the feet and allow to dry. Attach paper or thin sticks with glue to form arms and antennas. Paint the egg man whatever colors you like best. Use paint or felt tip markers to add facial features.

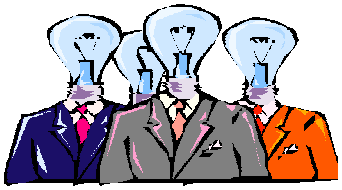




DEN AND PACK RECOGNITIONS



Light Bulb Inventors - Franklin, Einstein, etc.

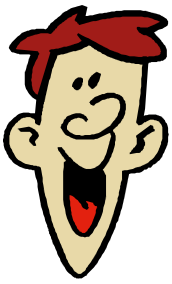


Jake Garn Award
Space Shuttle
Gear
Science Fair Certificates
Lightening Bolt
Spark Plug

Genius Kit Awards - Have Dens make Award from kit - Give each den a kit with the same items, for example: 8 buttons, 10 nails, 6 bolts, 6 screws, 10 milk caps, 1 egg carton, 3 bottle capes, wire (or any combination of whatever you have on hand)

BSA FAMILY AWARD

Suggested Topic



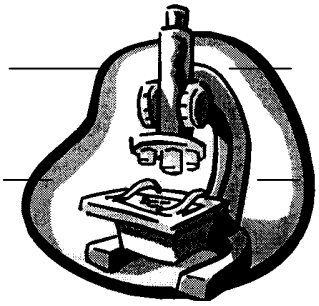
Communicating'

(Family Book p. 17)

How' s your family' s communication? Do children have ' selective hearing' when it comes to assignments? Or are parents not asking in the right way? Discuss the importance of Scientist' s, mechanics, and builders all communicating with each other and with those who are workers. An architect can design a building, but if he doesn' t communicate, the construction company will build it as they think it should look. Communication is essential for success in every area of our lives. Play ' Simon Says' as a family and see how well we listen. Visit the Children' s Museum and have fun exploring, but also encourage children to listen to what is being said.

THEME RESOURCES - - Why Does It Do That?

CATEGORY Scout	NAME	BOOK OR REFERENCE (Note: All books can be found at Shop)
Extra Ideas	Does Not Compute	National Theme — January 2000
	Turn on the Power	National Theme —November 2000
Awards and Thank Yous	Imagine That Battery -"Charged us up"	National Theme —October 2000
	Bottle of Glue -"Stuck to it"	
Ceremonies	Light Bulb -"Good Ideas" Radio Station CUBS, Inventions and Computers Advancement Ceremony	Ceremonies for Dens and Packs pg. 8-6, 8-10
Applauses & Cheers	Crazy Scientist, Computer, inventors, mad scientist, robot	All the Applauses We Could Find (alphabetical)
Song Academic Pins	"The Noble Captain Kirk" Art, Communicating, Geography, Science	Crazy Cory's vol. 2 pg. 30
Cub Requirements	Wolf Achievement 5-Tools for Fixing and Building	Wolf
	Wolf Elective 1-Secret Codes, 3-Make it yourself, 8-Machine Power, 21-Computers	Wolf
	Bear Achievement 17-Information, Please, 19-Carving, 20-Sawdust and Nails, 21-Building a Model	Bear
	Bear Elective 3-Radio, 4-Electricity, 5-Boats, 7-Things that Go, 17-Repairs	Bear
	Webelos Communicator, Craftsman, Engineer, Handyman, Scientist	Webelos



Pack Meeting Idea Theme: Technology and Computers

Activity: Do Computer Belt Loop, Wolf Elective 21, Bear Achievement 19 and Webelos Communicator

Teach parts of a computer (as per belt loop) and have each Cub Scout participate in a short quiz or game.

- Matching a picture of each computer part to the word.
- Labeling each simple picture on a paper.
- Pictionary, charades, etc.

Teach about semiconductors and the making of computers.

Teach the Binary Code.

Take a digital picture of each Cub Scout during pre-opening and then have each boy print out their picture during the activity.

Use a digital speech program to have the computer voice talk to the group with accompanying picture or PowerPoint presentation.