

### Boys'Life O I O



ALL ABOUT CUB SCOUTING 've joined Cub Scouting! Find out what's going to happen next.





8 Wolf. Bear and Webelos **Adventures** As you get older, you'll move up in rank and go on more adventures.

The BL Guide for Cub Scouts Cool stuff to help you Be Prepared for Scout fun now and later

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**PINEWOOD DERBY** Check out this special Cub Scout section from Boys' Life.



Pinewood Derby A former NASA engineer explains how you can use science to succeed at your next Pinewood Derby

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Hi there!

of course!

I'm here to tell you about being a Cub Scout. We're going to have all kinds of fun!

This magazine is a tiny version of the magazine I work for, Boys' Life. You can get Boys' Life mailed to you 10 times a year. It will show you all the cool stuff you can do in Scouting. It's a great way to spend some of your time outside of school, and you'll have a blast. Ask your parents to subscribe to Boys' Life today by going to boyslife.org.subscribe-now/minimag. Use promo code **minimag** for half price — just \$12 a year.

Sign up for Cub Scouting, and you'll have fun playing with your friends and making new ones. (Your parents will have fun, too, playing right along with you. Share this with them.)

So come on in and join Cub Scouting.

Our next meeting is right around the corner!



(See those horseshoes? That's my official autograph!)



Welcome to the wonderful world of Cub Scouting. My name is Pedro, and I'm a Mailburro. What's a Mailburro? Why, I'm a burro that hauls the mail,





Find a location near vou at BeAScout.org! Parents: Learn more about Cub Scouting at go.boyslife.org/cubscouts



Download the *Boys' Life* magazine app on your device and start reading today!

### CUB SCOUTS Do Fun Things!

They get to wear a cool uniform, go places and see things. They play all kinds of games and build things like racecars and birdhouses. Want to learn a secret code? Want to learn about wild animals? **GO CUB SCOUTING!** 

### **DID YOU KNOW?**

As a Cub Scout, you will be part of a pack. The pack is divided into smaller groups called dens. All of the Cub Scouts in your den are in the same grade and might even go to the same school.

## ANYWHERE! ANYTIME! ANY DEVICE!

Play fun **Boys' Life** games on your tablet, smartphone or computer. Check them out at boyslife.org

Me







#### **Third Grade Fifth Grade** Kindergarten **First Grade** Second Grade **Fourth Grade UION** BEAR ARROW OF LIGHT WEBELOS

## **All About Cub Scouting**

Welcome to the best adventure of your life.

That's what Cub Scouting is: one big adventure.

Whether you're in kindergarten, fifth grade or any grade in between, Cub Scouting is a blast. You can learn to tie knots, set up a tent, and shoot a bow and arrow. You can cook a meal outdoors, go on a hike, and visit your local police and fire stations.

You'll play sports, do some crafts and learn how to eat healthy foods. And each time you complete a task or learn a new skill, you'll earn an award called an adventure loop.

Adventure loops are cool loops that attach to your belt. Cub Scouts in Webelos and Arrow of Light dens earn adventure pins that attach to their uniform or cap. The older you get and the more you accomplish, the more adventure loops and pins you'll earn.

Complete enough adventures and you will earn your rank patch, like the ones pictured above.

Are you ready? Hold on tightly. Your next adventure is about to begin!

### All Cub Scouts learn the Scout Oath:

On my honor I will do my best to do my duty to God and my country and to obey the Scout Law; to help other people at all times; to keep myself physically strong, mentally awake and morally straight.

A Scout is trustworthy, loyal, helpful, friendly, courteous, kind, obedient, cheerful, thrifty, brave, clean and reverent.



### All Cub Scouts also learn the Scout Law:

### A Lion Adventure: Fun on the Run!

Staying healthy is fun. Real lions in the wild stay healthy by eating well and getting plenty of rest and exercise. A Lion Scout can do the same thing!

As a Lion, you'll learn three exercises you can do each day to help you stay healthy. You'll also learn how eating healthy snacks and getting plenty of rest is good for you.

Lions do other fun things, too. At one meeting, you'll make new friends. At another, you'll go outside and participate in a field day.

You'll get to meet people who provide a service in your community, like a police officer or firefighter. Then you'll get to provide a service yourself, maybe by planting a plant or picking up trash.

Being a Lion is great. By the end of the year, everyone will be able to hear you roar!

### A Tiger Adventure: **Rolling With The Tigers**

Riding your bike is a great way to get around. It's good exercise, it's faster than walking and, best of all, it's tons of fun.

Falling off your bike? Not so much fun. As a Tiger, you can learn how to ride better, faster and farther, while also learning how to stay safe. You and your friends will talk about things like wearing a helmet, knowing the rules of the road and taking care of your bike.

When you're done with that, you might play a game with your friends, like tag or maybe a relay race. What if it's too hot or too cold or too rainy to go outside? That's OK. You'll just go inside and play a board game — or maybe even a videogame with your friends.

Basically, if you like to do things that

are fun and safe, then you're going to have a great time as a Tiger.



### **A Wolf Adventure: Call of the Wild**

The longer you stay in Cub Scouting, the more fun stuff you get to do. As you get older, you'll advance through each of the ranks with your friends.

Wolves are in the second grade, and they get to do more hiking and camping. And while they're outside, they'll learn how to keep themselves safe by knowing what to do in case of an emergency.

Wolves might also learn about dinosaurs, make a map of their hometown or grow a plant from a seed.





martine in the

### A Webelos Adventure: Outdoor Adventure Adventurer

Webelos Scouts are in fourth or fifth grade, and they get to do all kinds of amazing stuff. From first aid to cooking food outdoors to learning the best ways to get exercise, Webelos Sc outs do all the great things in Cub Scouts plus try some of the activities they'll enjoy in Scouts BSA.

If you like having fun with your friends, then you're going to have a blast in Cub Scouts!





# THE BL GUIDE FOR CUB SCOUTS

FOR ALL YOU FIRST-TIME CAMPERS — OR VETERANS who need a refresher (that means all of us!) — the editors of *BL* have put together this guide to make your outing the best (and safest) it can be.

### WHAT YOU'LL NEED TO KNOW AND DO TO BE PREPARED.



# CUB SCOUT SIX ESSENTIALS

- A **first-aid kit** can be a lifesaver. Literally.
- **Water** can prevent dehydration, heat exhaustion and heatstroke.
- A **Flashlight** is important for finding your way in the dark. (Make sure it has fresh batteries.)
- Trail Food is good for maintaining your energy.
- **Sun protection** might include sunblock, sunglasses, lip balm and a wide-brimmed hat.
- A **whistle** is a good way to call for help if you're lost. Don't use it for fun! Only in case of emergency.

### FOR LONGER ADVENTURES IN THE OUTDOORS, ADD THESE TO YOUR GEAR LIST:

- **Extra clothing** to match the weather. Multiple layers are better than a single massive jacket, because layered clothing is adaptable to a wider range of temperatures.
- **Rain gear** is very important. Being wet from rain might result in hypothermia, a potentially fatal condition.
- A pocketknife or multitool can be handy in a wide variety of situations. Don't forget to first earn your Whittling Chip (for older Cub Scouts) or Totin' Chip (for Scouts BSA members).
- A map and compass are probably the most important tools you can carry in case you get lost.

# BASIC EXERCISES TO HELP YOU STAY IN SHAPE.

- Walk or jog For 30 minutes a day at least three days a week.
- **On other days,** work in some jumping jacks, jump rope, and pushups, pullups and situps.
- **Mix up your workouts** with swimming, cycling, weights or even Full-court basketball. It doesn't matter which activity you choose. Just get active.

FOR MORE, VISIT

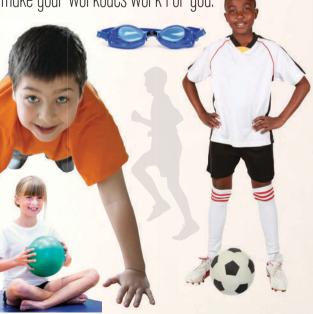
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### **WORKOUT TIPS:**

Don't Forget to warm up and cool down.

At the start of your workout, jog in place or do some jumping jacks to get your blood flowing. After your workout, cool down with some gentle stretching. Don't give up. Working out isn't supposed to be easy. To get in really good shape, you need to push yourself. Keep going as long as you can while maintaining good form.

Get advice From people who know what they're doing. Talk to a trusted coach or other knowledgeable adult about how to make your workouts work for you.



#### **FOLLOW THE RULE OF FOUR**

One rule Scouts should always follow is the "rule of Four." Have you ever heard of it? It's simple. Every party that travels off the beaten path should contain a minimum of four people. That way, if one person falls or is involved in some other accident, one person can take care of the victim while two hike out For help.

YOU GO: plastic trash bag, metal match with scraper, plastic whistle and glass signal mirror.

Tell someone where you're going.

• Build a survival kit: a heavy-duty large orange

### **IF YOU'RE LOST:** • Maintain normal body temperature.

• Stop moving around. Sit For at least 30 minutes.

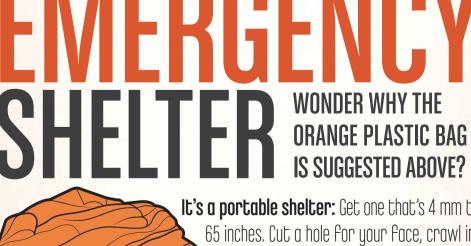
BEFORE

SURVIVE THE

- Think about what needs to be done.
- **Observe** your surroundings. • **Plan** a course of action and
- implement it.

• Hydrate or die. Drink Fluid regularly. • Start a fire.

Make yourself big – use your signal mirror, send smoke signals – anything.





It's a portable shelter: Get one that's 4 mm thick and about 38 inches by 65 inches. Cut a hole For your Face, crawl inside and hunker down For the night. It might not look pretty, but it's lightweight, packable, cheap and will stop wind, rain and cold — and could save your life.

Purell #1 DOCTOR -

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### THE WORST KIND OF FIRST-AID KIT IS THE ONE THAT NEVER GETS MADE. BE PREPARED WITH AT LEAST THE FOLLOWING ITEMS IN YOUR PERSONAL FIRST-AID KIT:

- Six adhesive **bandages**
- Two 3-by-3-inch sterile gauze pads
- One small roll of **adhesive tape**
- One 3-by-6-inch piece of **moleskin**
- One small tube of **antibiotic ointment**
- One pair of scissors
- One pair of non-latex **disposable gloves**
- One CPR breathing barrier
- Pencil and paper
- One small bar of soap or travel-sized bottle of hand sanitizer

## KETTER DEBUG ACT DEBUG DEBUG DEBUG

### THE PINEWOOD DERBY is one

of the highlights of the C Scout year. You get to rac car that you build. You le woodworking and good sportsmanship, too. Read to find out more about the Pinewood Derby. CONTINUE

MORE THAN 1 MILLION CUB SCOUTS will participate in the Pinewood Derby

this year.

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Cub
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The first Pinewood Derby was held in 1953. More than 100 million Pinewood Derby cars have been built in all.



	Instant Badge A
Nintendo Switch Lit	
	★ Five kids will win!! ★

Correctly answer these three true-or-false questions to be eligible to win one of five Nintendo Switch™ Lite handheld devices. Enter online or mail in your completed form.

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### True or False?

- Badge Magic<sup>®</sup> is a powerful peel-and-stick adhesive. No sewing or ironing needed.
- \_\_\_\_ Badge Magic<sup>®</sup> is so strong, your patches will stay on even when washed!
- Badge Magic<sup>®</sup> has been tested on all official BSA uniform fabrics, patch vests and blankets.

Name:	
Address:	
City, State, ZIP:	
Phone #:	
Email:	
Parent/Guardian's Signature of Consent:	
Send your answers, contact info and parent/guardian's signature to:	
Boys' Life Magazine/Badge Magic Contest	
1325 W. Walnut Hill Lane/S345 P.O. Box 152079   Irving, TX 75015-2079	
Or visit: https://bsa.boyslife.org/badgemagic2020/	

### $\star$ It's so easy that Scouts can apply their own badges like magic!! $\star$ (or beg Mom to do it for them)

**Badge Magic**<sup>®</sup> is a powerful peel-and-stick adhesive that quickly attaches badges to uniforms without sewing or ironing! Patches are guaranteed to withstand many washings.

**Badge Magic**<sup>®</sup> is so easy to use that Scouts can put on their own patches. Award badges can be attached immediately instead of finding their way into a drawer where they might be forgotten until the last minute.

**Badge Magic**<sup>\*</sup> may be purchased at your local Scout shop and has been tested on all official BSA uniform fabrics, patch vests and blankets.

Visit badgemagic.com to see the full line of kits for every level of Scouting. You will also find instructional videos, official uniform guides, and other tips and tricks suggested by **Badge** Magic<sup>®</sup> users. Made by Scouters for Scouters. It's like Magic!

No purchase necessary. Contest begins at midnight CDT 6/01/20 and ends at 11:59 pm CST 12/31/20. Void where prohibited. Odds of winning depend on the number of eligible entries received. Many will enter, 5 will win a Nintendo Switch™ Lite handheld device. Color may vary. MSRP \$199.99 per prize. Prize is not transferable for cash. Sponsor reserves the right to substitute a prize of equal or greater value in the event of unavailability. Names and addresses will be used only for the purposes of selecting winners and will be disposed of at contest end. Sponsor reserves the right to release the first name, first initial of last name, city and state of the winners. All personal information will be securely disposed of following the contest end. Sponsor is not responsible for late, lost, illegible, incomplete or misdirected entries. Boy Scouts of America, Boys' Life magazine and Badge Magic<sup>®</sup> accept no liability or responsibility in connection with any injuries, losses or damages of any kind caused by or resulting from the acceptance, possession or use of any prize awarded. The trade dress of the Cub Scout uniform is a registered trademark of Boy Scouts of America. Used with permission. Copyright 2020.



PLAY BY THE RULES Check the rules for your Pinewood Derby race to make sure these super-sciency techniques are allowed. DON'T CHEAT!

## The Science of the PINEWOOD

A former NASA engineer explains how you can use science to succeed at your next Pinewood Derby.

BY Mark Rober ILLUSTRATIONS E Adam Nickel



MEET MARK Mark Rober worked as a mechanical engineer at NASA for nine years. During this time, he worked on Curiosity, a carsized robot that left Earth in 2011, landed on Mars in 2012, and has been exploring, conducting experiments and sending back pictures ever since. Now Mark makes cool science-related videos.

or seven years, I worked on the Mars Curiosity rover at NASA. It is just like a Pinewood Derby car, except it has six wheels, it's nuclear-powered and it shoots lasers.

My Cub Scout son and I decided we would take the science principles I used while building stuff for NASA and apply them to making his derby car. Here are the seven most important steps for making the fastest car possible.

### SEVEN KEY STEPS in order of importance)

1. MAX OUT YOUR CAR'S WEIGHT at 5 ounces and make sure the heaviest part is about 1 inch in front of the rear axle. This is the most important step. Science shows if you do this correctly, you will beat a car built exactly the same - except with the weight toward its front – by 4.6 car lengths. It works because the farther back the weight is, the more potential energy you have since your center of mass is higher up on the track. (Don't put it too far back or your car will become unstable and pop a wheelie.)

#### 2. USE LIGHTWEIGHT WHEELS. This is illegal in some races

but if it's not in yours, this is a must-do step that will give you a 2.1-car-length advantage at the finish line versus a car with normal wheels. It works because heavy wheels take away from the kinetic energy (the energy something has due to its motion), which makes the car slower.





### **3. USE BENT POLISHED AXLES**

Bending your axles with a bending tool will make the wheels ride up against the nailhead, which creates less friction than if the wheel is bouncing around and rubbing against the wooden car body.



5. CREATE A CAR THAT IS REASONABLY AERODYNAMIC, meaning its design cuts down on drag caused by air. No need to get crazy here, but simply having a wedge-shaped car instead of the standard block out of the box will equal a 1.4-car-length advantage at the finish line.

### 6. RIDE ON THREE WHEELS by

raising one wheel off the track. (Check the rules to make sure this <mark>is allowed in your race.)</mark> You will move faster if you have to get only three wheels rotating, giving you a 1.1-car-length advantage over an identical car riding on four wheels.

**IT WORKS!** After my research, my son and I wanted to do one final test to prove this is a good list. So we built a simple car using this list in 45 minutes, and we beat the fastest car in our local race by two car lengths. TURNS OUT, SCIENCE WORKS!

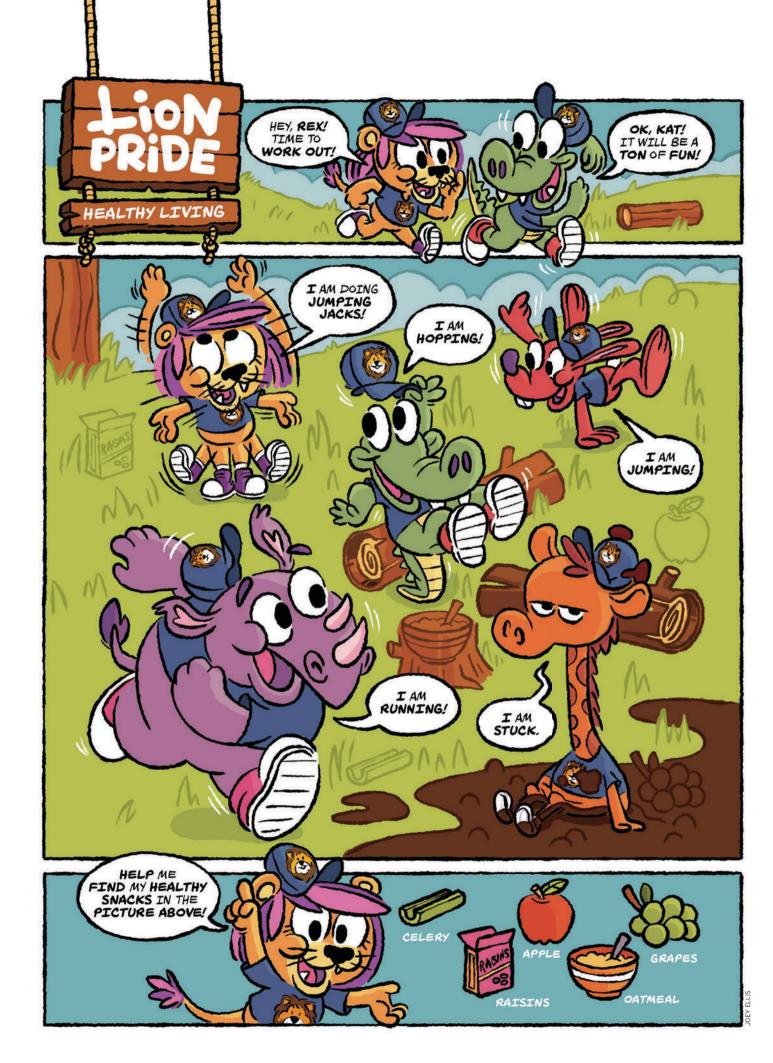
### FOR MORE INFO ON THE SCIENCE OF THE PINEWOOD DERBY, AND FOR A video of mark showing how to use science to make a super-fast pinewood derby car, visit go.boyslife.org/derbyscience

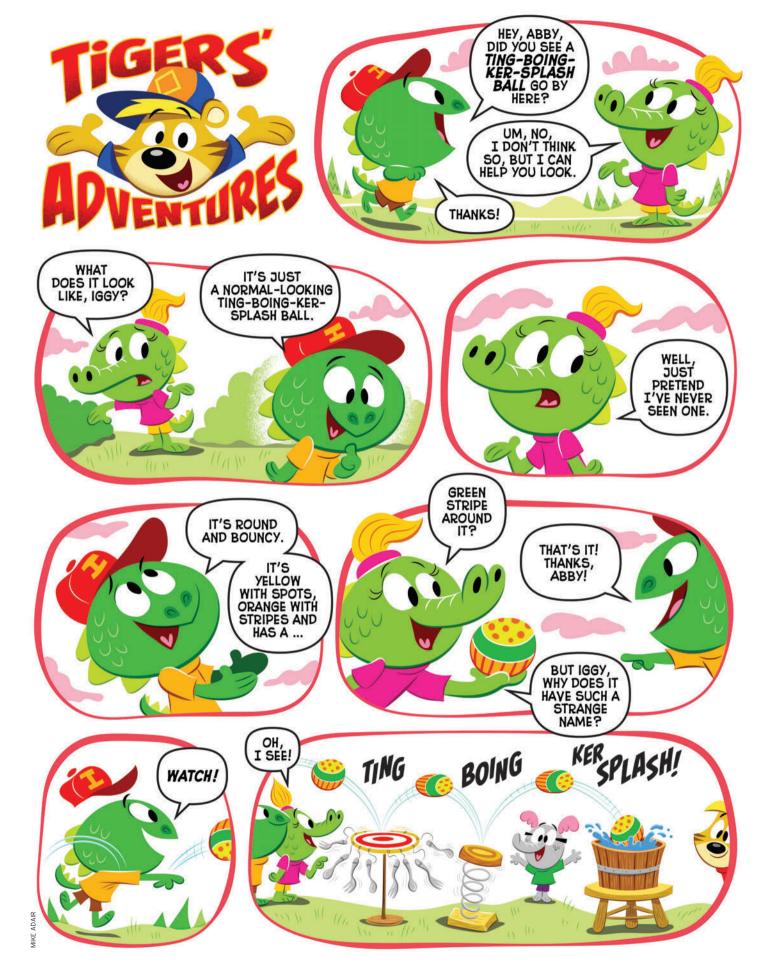


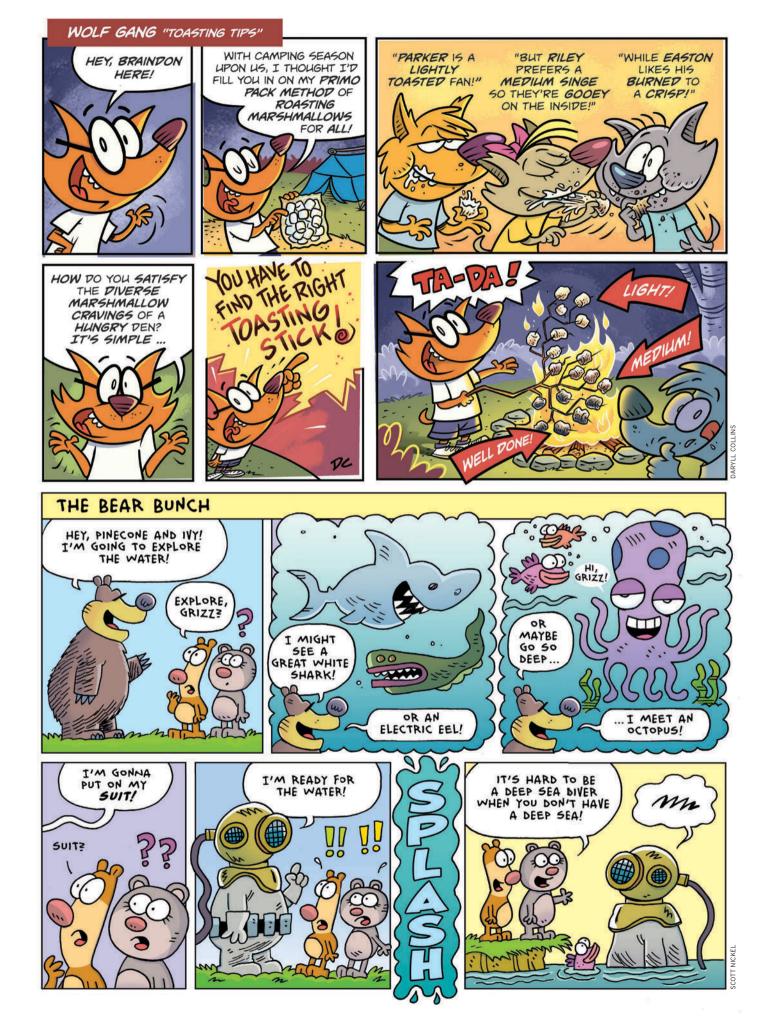
**4. RAILRIDE.** Railriding means you steer your car into the center guide track just enough that you keep the car from bouncing around. This helps reduce friction and saves energy for speed. (Grab a trusted adult and search the internet for instructional videos on how to make your car a railrider.)

#### 7. USE LOTS OF GRAPHITE.

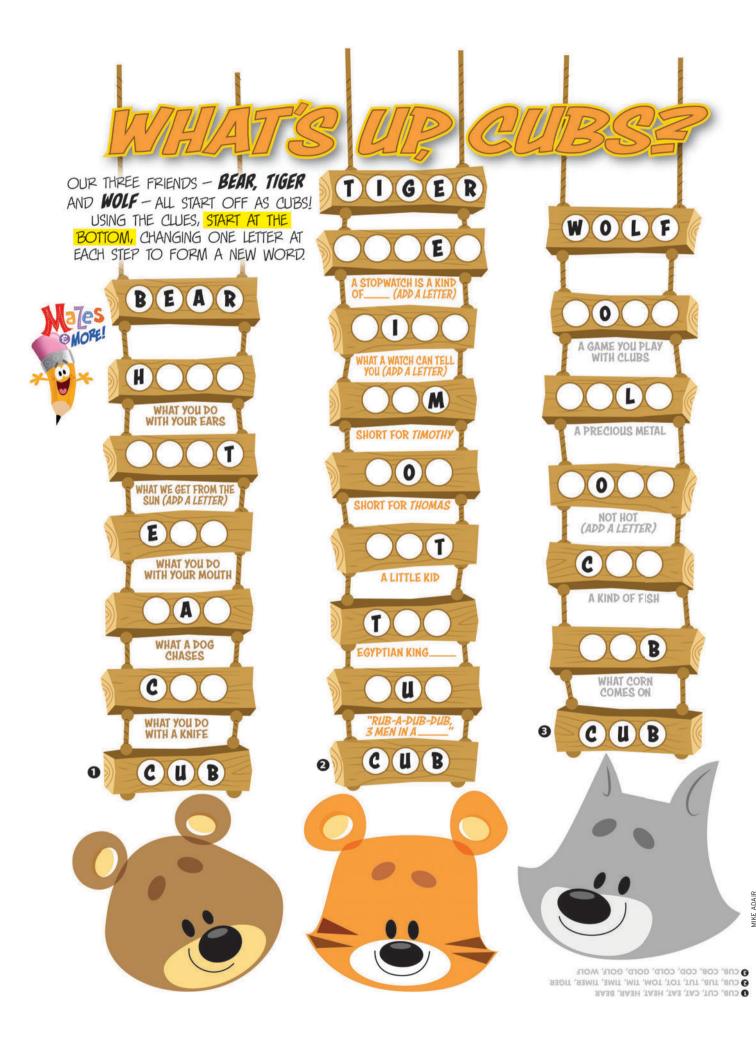
There isn't a big difference in types of graphite, so buy the cheap stuff and use as much as possible. Be sure to get plenty around each wheel and on the axle.

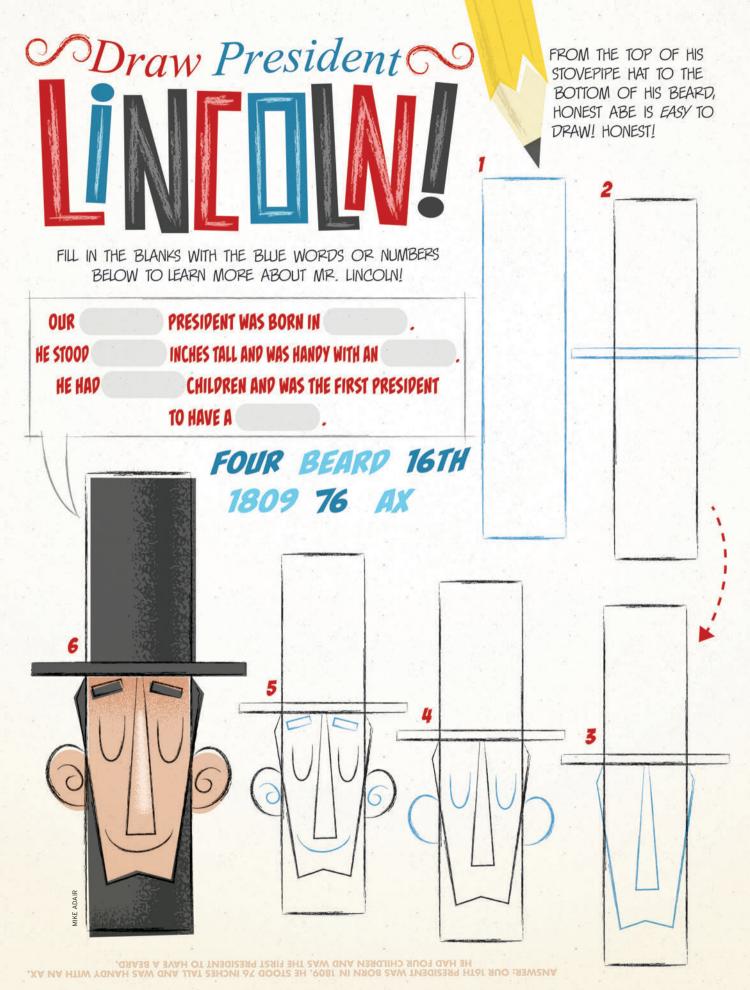














CROWN PRINCESS DUNGEON RCPA MOAT CASTLE **KNIGHTS** AERXMOJU S S DRAGON 0 DRAWBRIDGE D C. Κ WKL KING SHIELD DA E Ο ARMOR C D 0 В 0 Q G M CREST S DMOA Α Q D Α GO 0 ME W С Α FLAG GL 0 S FIRE N D 0 S S W COG 0 1 0 R М G G GON O D R G Α R D G C A TR 0 S D P S 0 ME D) N О R LD WZG Ρ 0 Α C R A UR DTCNUWPVES Ρ D Α

FIND THESE MEDIEVAL WORDS ON THE DRAGON'S BACK! SWORD

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SMOKE

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FLAME

THRONE

QUEEN

111







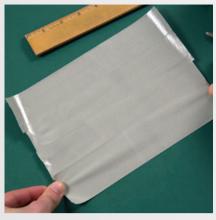


**HOW TO MAKE IT** 

### **DUCT-TAPE** WALLET

Use duct tape to make a handy wallet that will last for years.

#### START



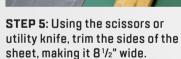
STEP 1: Cut four strips of duct tape, each 9 inches long. With the adhesive side up, stick the duct-tape strips to one another in a row, with a 1/4" overlap.



STEP 2: Make a second sheet. Carefully stick the adhesive sides of the two duct-tape sheets together, lining up the edges.



STEP 4: Fold and adhere the 1" ducttape strips to the 9" ends of the sheet. This will make a smooth, clean



WHAT YOU NEED: • Duct tape • Ruler

 Scissors or utility knife

WATCH OUR STEP-BY-STEP VIDEO AT go.boyslife.org/wallet

**SAFETY FIRST:** Ask an adult to help with tools you haven't used before.



STEP 7: To make a smaller pocket for cards, cut two strips of tape each 5" long and stick the two pieces (adhesive sides) together.



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STEP 3: Cut another 9" strip of duct tape. Use a utility knife or scissors to make a small cut in the center of one end of the duct tape. Tear the strip into two straight 1" strips.





STEP 6: Fold the sheet in half. Tear two 1-by-4-inch duct-tape strips and attach one to each end. Fold them over the sides of the wallet and trim the excess.



STEP 8: Fold and adhere a 1" strip onto STEP 9: Using 1/2" strips of duct tape, the 5" edge. Trim the pocket to 4" long. stick the pocket in place as shown above. Trim the strips flush. Your ducttape wallet is complete!

### Charles: Do you want to hear a

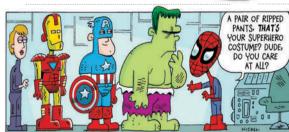
joke about cattle? Jay: Sure. **Charles:** Never mind. You've probably already herd it.

– Charles L., Clarksburg, West Virginia

#### PEDRO'S PICK

MANAN: How many feet are in a vard? **ZEKE:** How many? MANAN: It depends on how many people are standing in it. \$10 to Manan S., Edison, New Jersev

A PUNNY BOOK: The Art of Giving by B. Stowe. Kai L., League City, Texas



PARWAAN: I'm trying to think of a new drum joke. HRITVIK: How's it going? PARWAAN: Beats me. Parwaan V., San Ramon, California

#### Sean: Can a match box? Mom: I don't know. Sean: No. But a tin can. Sean P., Manchester, Connecticut

SAM: What do you get when you cross a rabbit and a snake? MICHAEL: I don't know. SAM: A jump rope. Bobby G., Davis, California

**ANDREW:** What becomes infinitely bigger when you turn it on its side? MATTHEW: What? **ANDREW:** The number eight Andrew T., Allen, Texas

**Andrew: Why** can you never see a mammoth hiding behind a tree? **Jacob: Because** they're so good at it? **Andrew:** No.

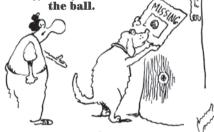
Because they're extinct. Andrew T., Allen, Texas



Actually, I only got into therapy so I could get on the couch.

TOM SWIFTIF "I want to go exploring," Tom ventured. Evi Z., Pewee Valley, Kentucky

JAY: What is a sheep's favorite sports car? BARRY: No clue. JAY: A lamb-orghini Havden B., St. Louis, Missouri For the last time. Scruffy, I only fake tossed the ball.



**Andrew: Dave's** father has three sons. Snap, **Crackle and who? James: Pop?** Andrew: No. Dave. Andrew T., Allen, Texas

ELI: What does an elephant wear to the beach? JONAH: What? ELI: Swimming trunks. Eli B., Bainbridge Island, Washington

MANAN: Why do we tell actors to break a leg? FRANK: Why? MANAN: Every play needs a cast. Manan S., Edison, New Jersey



do witches fly on broomsticks? **Connie: Tell me. Sally: Because** vacuum cleaners are too heavy. Brandon B., Napoleon, Ohio

LUKE: What did the baseball mitt say to the baseball? JAKE: I don't know. LUKE: "Catch you later!" Divyanshu P., Sterling, Virginia

Santana: Why aren't dogs good dancers? **Jules:** Why? **Santana: Because** they have two left feet. Santana W., San Antonio, Texas



A PUNNY BOOK: Wild Animals by Kai Otee. Hudson F., Andover, Massachusetts

I say, sir, have you seen a black and white cat around here?





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#### **THINK & GRIN**



**ANDREW:** What are the strongest days of the week? DANIEL: Tell me. **ANDREW:** Saturday and Sunday. The others are weekdavs. Andrew S., South Ooden, Utah

#### Two atoms are walking down the street when the first one exclaims. "I just dropped an electron!"

"Oh, no," says the second. "Are you sure?" "I'm positive."

Jared I., Portland, Oregon

JACK: What do you call a car that likes water? BRIAN: I don't know. JACK: A Scubaru. Brian W., Richardson, Texas



LUKE: How do you stop a skunk from smelling? NEAL: Give it a bath? LUKE: Hold its nose. Neal R., Oak Ridge, North Carolina 💠



Boys' Life will send you this Official Contributor patch for each joke of yours we publish. Send the Joke on a postcard with your complete address to Think & Grin, *Boys' Life*, P.O. Box 152079, Irving, TX 75015-2079 or online at boyslife.org

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