

# How to Make Binoculars by Upcycling Toilet Paper Rolls



## Materials

- 2 empty toilet paper rolls
- White glue
- String or ribbon
- Construction paper or butcher paper
- Decorating supplies, such as markers, crayons, stickers, or tissue paper (optional)

## Directions

### 1. Attach the toilet paper rolls together.

Begin by connecting your toilet paper rolls. We chose to use three glue-dots to stick ours together. If the binoculars are going to be played with a lot, we recommend using white glue or hot glue (with a grownup) for a stronger hold. Wait for the glue to dry before continuing to the next step.

### 2. Wrap the rolls in paper.

The wrapping is purely decorative, so feel free to skip this step! Choose the paper you'd like to cover your binoculars in. Wrap the paper around the width of the binoculars, and trim off the excess paper with scissors. Use glue dots to secure it around the rolls.

### 3. Decorate your binoculars.

Decorate your binoculars however you choose! You can paint them, color them with crayons or markers, glue tissue paper to them, cover them in washi tape or stickers, and even bedazzle them. There is no wrong way to do this step!

### 4. Poke holes into the sides.

If you want to be able to wear your binoculars around your neck, make sure you add a strap. Use scissors to cut a small hole on the outside edge of each roll, about a 1/2 inch from the top.

### 5. Measure and tie on the string.

Measure and cut your string. Then, take one end of your string and thread it through the hole you made. Tie a knot to secure it. Repeat with the other side of the string.



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# DIY Pizza Box Solar Oven

## Materials

- A sunny day
- Empty pizza box
- Plastic wrap
- Scissors
- Tape
- Aluminum foil
- Chopsticks or a 12-inch ruler
- Graham crackers
- Marshmallows
- Chocolate bar



## Directions

### Prepare the pizza box

1. Cut a large flap into the top of the pizza box. You will want the flap to lift up to become a sun reflector. See the picture for how the flap should be cut.
2. Tape aluminum foil to the bottom (inside) of the flap. You can also put aluminum foil on the inside bottom of the pizza box. (You can also try using dark paper, and then compare the results!)
3. Tape plastic wrap over the window of the pizza box lid.

### Cook your solar oven s'mores!

1. You'll lay out your smores inside the box: graham cracker, chocolate, marshmallow (note we did not place another cracker on top).
2. Cover the window if it isn't covered yet.
3. Prop up the reflective flap if needed. We used chopsticks to do this; you can also use a ruler.
4. Watch and wait. Go play. Then watch some more. Check on your s'mores after about 15-20 minutes!

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# Acrostic Poem Composition

An acrostic poem is a poem in which certain letters (usually the first letters) of each line spell out a word or phrase.

Here's an example for **SUMMER**:

**S**unshine warming my toes,  
**U**nderwater fun with my friends.  
**M**aking homemade ice cream on the porch,  
**M**any happy nights catching fireflies.  
**E**arly morning walks to the creek,  
**R**eveling in the freedom of lazy days.



Write an acrostic poem using the following words:

**H** \_\_\_\_\_  
**I** \_\_\_\_\_  
**K** \_\_\_\_\_  
**I** \_\_\_\_\_  
**N** \_\_\_\_\_  
**G** \_\_\_\_\_

**S** \_\_\_\_\_  
**M** \_\_\_\_\_  
**O** \_\_\_\_\_  
**R** \_\_\_\_\_  
**E** \_\_\_\_\_  
**S** \_\_\_\_\_

**F** \_\_\_\_\_  
**O** \_\_\_\_\_  
**R** \_\_\_\_\_  
**E** \_\_\_\_\_  
**S** \_\_\_\_\_  
**T** \_\_\_\_\_

**C** \_\_\_\_\_  
**A** \_\_\_\_\_  
**M** \_\_\_\_\_  
**P** \_\_\_\_\_  
**I** \_\_\_\_\_  
**N** \_\_\_\_\_  
**G** \_\_\_\_\_

Do you have a question about poetry?  
Connect with an English tutor for help with  
other types of poems, such as a Haiku or a limerick!



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# Camping Scavenger Hunt

If you're out in nature, try completing this scavenger hunt!  
How many of the things listed below can you find?

- |   |   |
|---|---|
| <input type="checkbox"/> Flashlight or lantern    | <input type="checkbox"/> Ant                        |
| <input type="checkbox"/> Water bottle             | <input type="checkbox"/> Spider or spider web       |
| <input type="checkbox"/> Binoculars               | <input type="checkbox"/> Leaf larger than your hand |
| <input type="checkbox"/> Tent                     | <input type="checkbox"/> Squirrel or chipmunk       |
| <input type="checkbox"/> Fungus growing on a tree | <input type="checkbox"/> Animal tracks              |
| <input type="checkbox"/> Tree stump               | <input type="checkbox"/> Stick shaped like a Y      |
| <input type="checkbox"/> Bird                     | <input type="checkbox"/> Fallen tree                |
| <input type="checkbox"/> Moss                     | <input type="checkbox"/> Acorn                      |
| <input type="checkbox"/> Round rock               | <input type="checkbox"/> Campfire                   |
| <input type="checkbox"/> Flat rock                |   |



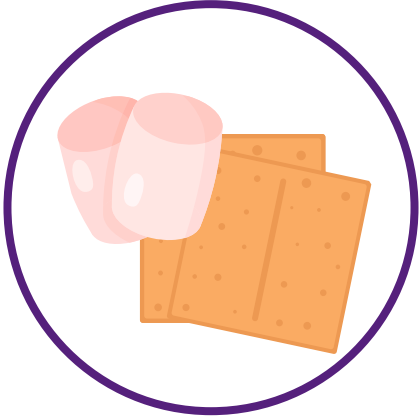
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# S'mores Math

Can you crack these camping word problems?  
If you need help, connect with a tutor!



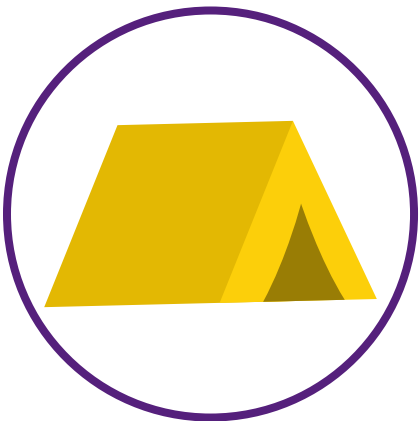
Emily and 5 of her friends want to make s'mores. There is a bag of 30 marshmallows and a package of 48 graham crackers.

**How many marshmallows and how many graham crackers can they each have?**



Emily and her 5 friends will also need chocolate for their s'mores! There are 3 chocolate bars with 12 squares of chocolate each.

**How many squares of chocolate can Emily and each of her friends have?**



Jax and 9 of his friends want to go camping. Each tent sleeps 2 people.

**How many tents should they bring?**



The area of your campsite is 36 square yards. It is square.

**What are the measurements of the sides?  
What is the perimeter?**

Do you have another question about math?  
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