



**SUMMER
BOREDOM
BUSTER
CHALLENGE**

COLOR

COLOR

EXPLORE COLOR
THROUGH
ARCHITECTURE,
DRAWING, AND
FRUIT!

DID YOU KNOW?

- Love exploring color? You can get a degree as a color scientist. You'll explore the quantitative description of color through computer science, physics, chemistry, psychology, and more.
- Oregon Blue, the first new blue pigment discovered in over 200 years, was found by accident by a scientist looking for new materials for electronics.

FUN FACTS

WHAT DID THE ARTIST
DRAW BEFORE HE WENT
TO BED?

THE CURTAINS!

STEAM FUNNIES

STEAM SNACK

RAINBOW SMOOTHIES

INGREDIENTS

- Fruit and vegetables in different colors
- Yogurt
- Honey (optional)
- Juice (optional)
- Blender

RECIPE

Pick a few fruits and vegetables and guess what color smoothie they will make. Put 1 cup fruit and vegetables and 1/2 cup yogurt into a blender. Blend until smooth.

Can you make a green smoothie? A purple smoothie? What ingredients do you need?

SINGLE LINE SCRIBBLE ART CHALLENGE

QUICK STEAM



WHAT'S THE STEAM BEHIND IT?

This art challenge is a fun way to explore geometry and one of the building blocks of visual art. Many famous artists have created stunning line drawings and line drawing is one of the first steps in art education. Pablo Picasso is famous for some of his continuous line drawings. Jackson Pollock used continuous paint drips in his iconic abstract paintings. Keith Haring is famous for his bold line drawings and Bridget Reilly, a pioneer of op art, used line drawing to create stunning optical illusions.

SUPPLIES:

- Paper
- Black pen or pencil
- Markers or colored pencils

INSTRUCTIONS:

1. First draw your single line scribble with black marker or pencil. The goal is to scribble across the entire page in one continuous line without picking up your marker. The lines can cross, curve, whatever you feel like!
2. Draw three large shapes over your scribble line. You can draw circles, squares, triangles, or another 2D shapes you prefer. For a more advanced project, try 3D shapes like pyramids or cylinders.
3. Next, pick 3 sets of two color coordinated markers. Color in the shapes with the markers.



WATERCOLOR HOUSES

INSTRUCTIONS: BUILD THE HOUSE

1. First print out your template on printer paper. Cut around the solid black lines. To cut out the windows, grab an adult and a box cutter.
2. Then trace around your templates onto the watercolor paper and cut out along the solid lines. Repeat with the box cutter.
3. Fold your house along where the dotted lines would be (you can mark them with a pencil if it helps). Also fold roof in half along dotted line.
4. Add double sided tape on each of the flaps and tape together. Add the roof and tape to the base.

INSTRUCTIONS: PAINT THE HOUSE

Grab some liquid watercolors (or food coloring mixed with water) and a bunch of pipettes or brushes. Then try different techniques like dripping, splattering and brushing. Squirt guns would be fun too!! This is all about the process and exploring how the colors of the house come out. Or play house painter and be more exact. Your creativity is your guide.

HOW TO ADJUST FOR DIFFERENT AGES

- The houses can be pre-cut and folded for younger kids, leaving the taping and watercolors for them to do on their own.
- For older kids, leave all the steps to them and use it as an opportunity to talk about tool safety.

DIFFICULTY: ●●●

TIME: 30 MINUTES

SUPPLIES:

- Watercolor houses printable template
- 140 lb. watercolor paper
- Scissors
- Box cutter
- Ruler
- Liquid watercolors or food coloring with water
- Pipettes, droppers or paint brushes



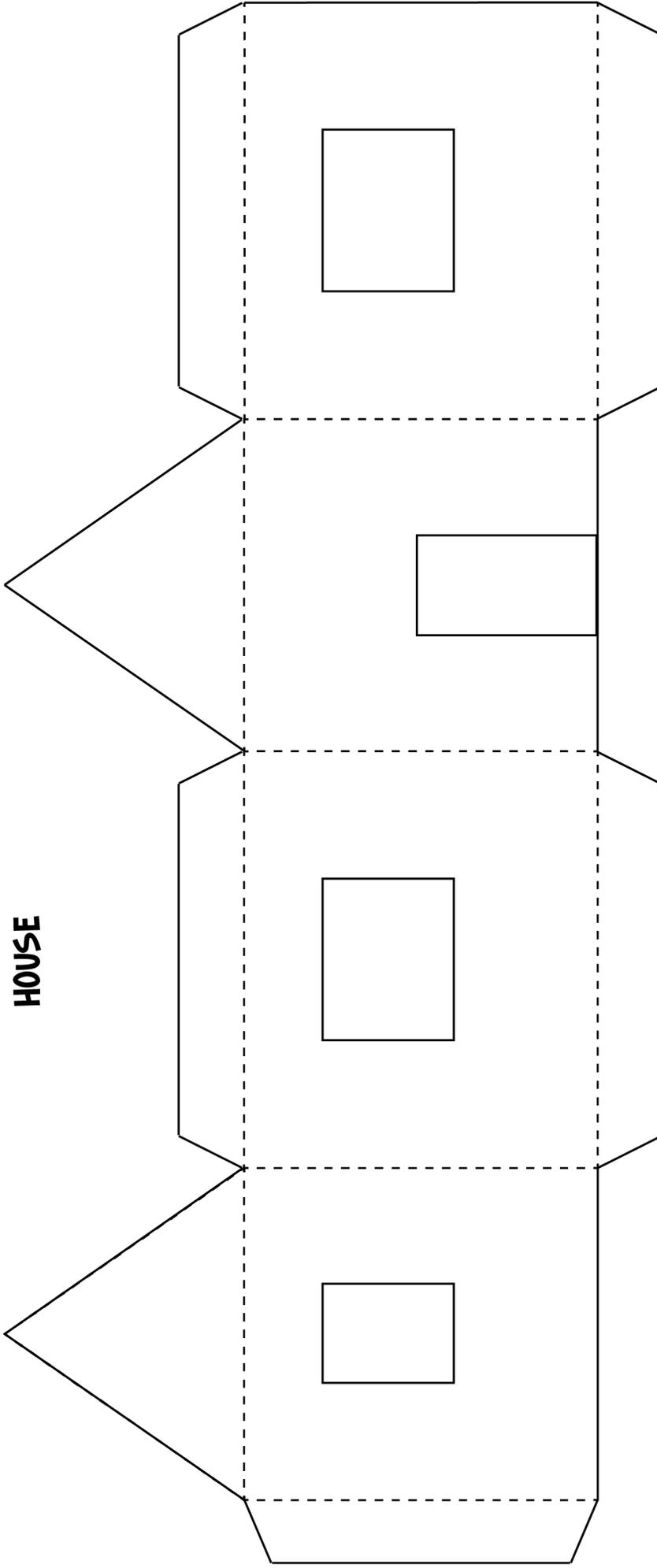
WHAT'S THE STEAM BEHIND IT?

Architecture is the ultimate STEAM career!

Architects have to:

- Learn the concepts of science (physics, gravity, forces, motion).
- Incorporate and use technology to design their structures.
- Utilize engineering to develop systems that support the building and environment.
- Use art and design to create something beautiful and fitting for the environment they are designing for.
- Utilize mathematics through geometry to define the spatial form of a building.

HOUSE



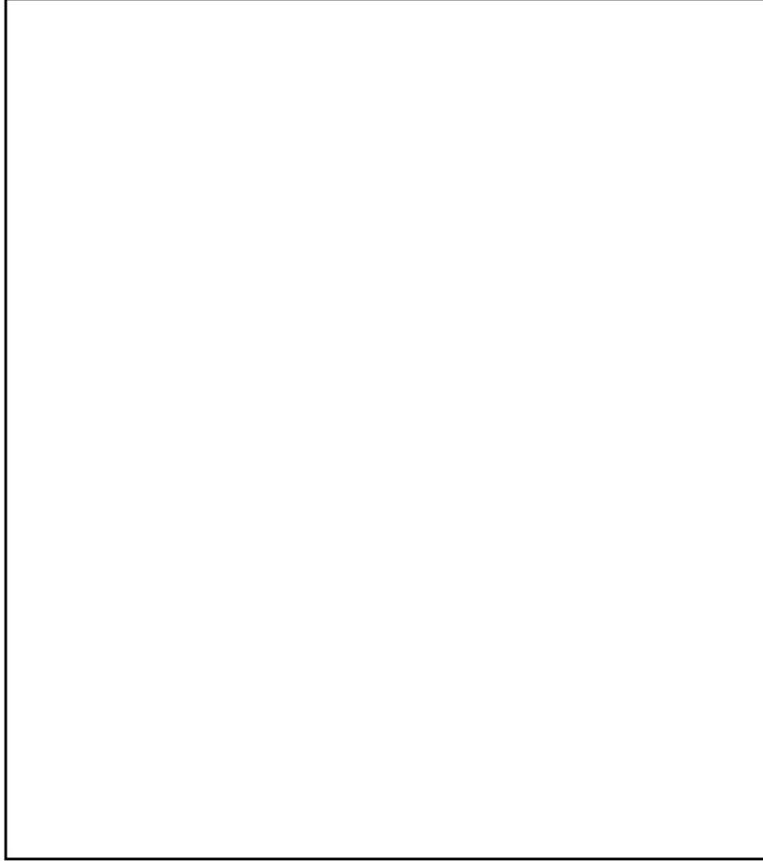
DIRECTIONS

1. Cut out House, Base and Roof along solid black lines with scissors.
2. Using a box cutter, cut out windows and door. (Adult supervision recommended.)
3. Place template on watercolor paper and cut out along solid black lines.
4. Fold house along flaps (dotted lines on template). Using a ruler or a bone folder helps make sharper folds.
5. Tape house flaps together with double-sided tape. Then tape roof to house and house to base.

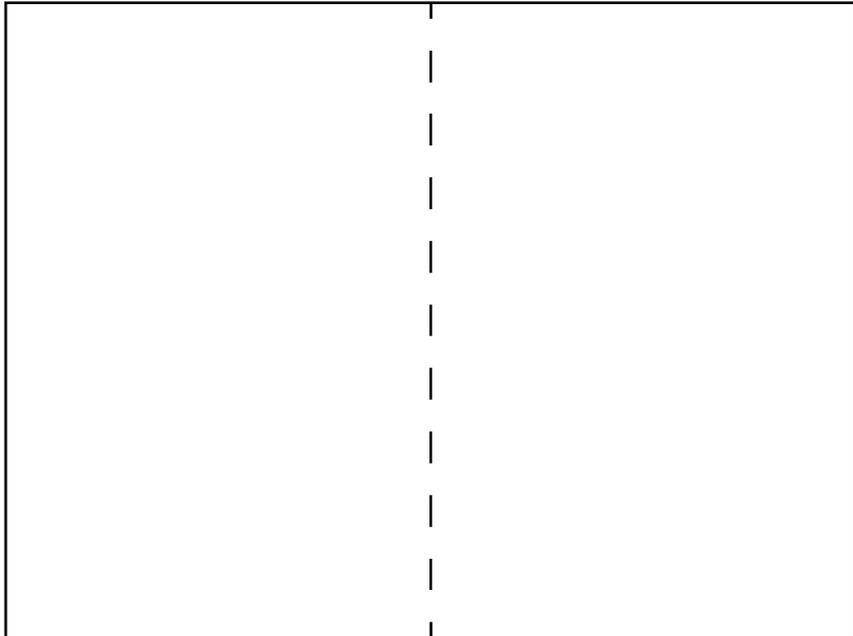
WATERCOLOR HOUSE TEMPLATE (PAGE 1)

WATERCOLOR HOUSE TEMPLATE (PAGE 2)

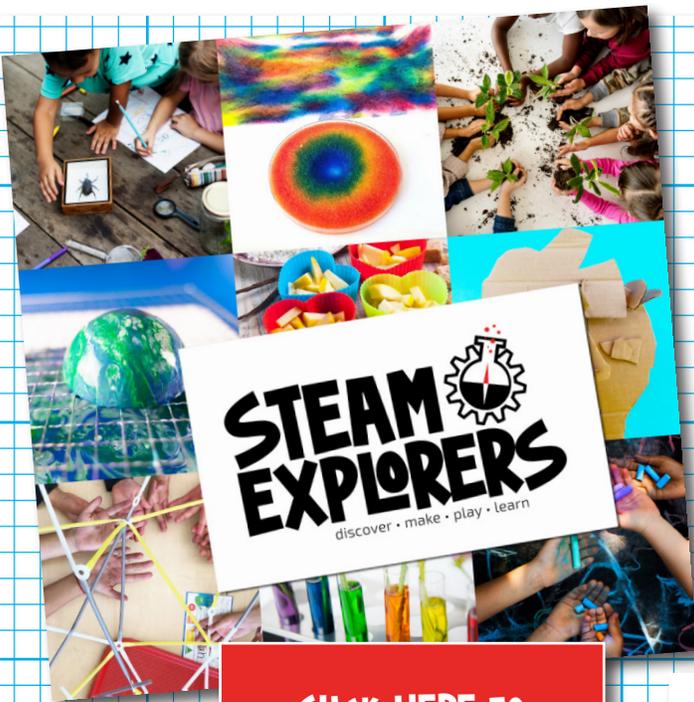
BASE



ROOF



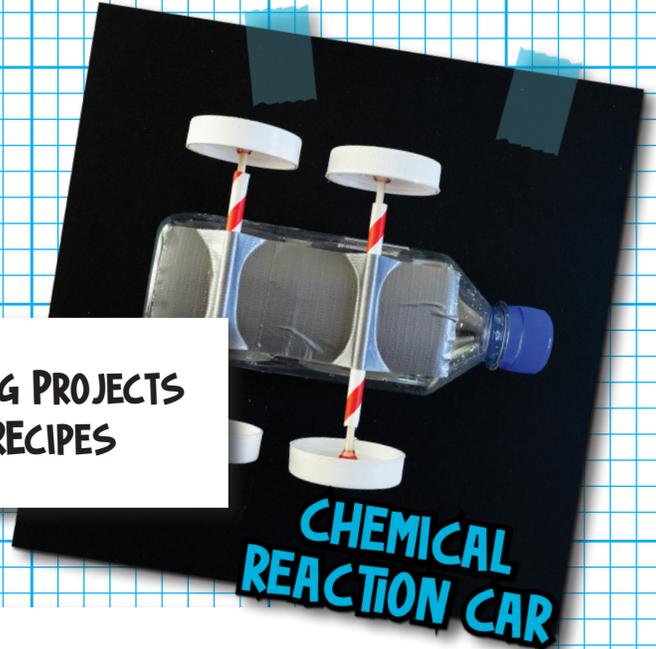
HERE'S A PEEK AT SOME OF THE OTHER AMAZING THINGS YOU'LL FIND INSIDE A STEAM EXPLORERS DIGITAL MAGAZINE AND THE ONLINE PROJECT PORTAL!



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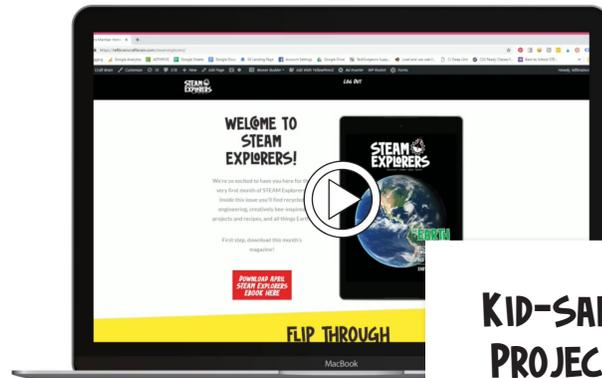
EXCITING PROJECTS & RECIPES



12 FUN FACTS ABOUT BEES

FUN PRINTABLES & ARTICLES

5 Bees can only see ultra violet rays. They see the world through ultraviolet light.
6 It takes approximately 1,000 bee stings to be fatal to a healthy adult human.
7 Honey bees live in hives called colonies. There are three types of bees in a colony: the queen, the workers and the drones.
8 Only female bees sting.
9 Honey bees communicate with each other via dancing. When there is a nectar nearby, they use the Round Dance. If it's farther away, they use the Waggle Dance which communicates the direction of the food source.
10 Those bees you see flying around your food to them! Bees are an important part of our food chain because they pollinate approximately 80% of all vegetables, fruit and seed crops in the USA.
11 The world's bees are being impacted by Colony Collapse Disorder (CCD), a problem where the worker bees in a colony abandon it and the queen, or drones are left trying to figure out the cause but believe that stress, pesticides and parasites are the main culprits. The good news is that CCD is on the decline in recent years.
12 There are over 20,000 species of bees in the world.



KID-SAFE ONLINE PROJECT PORTAL



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