

ACTIVITY GUIDE

Developed by



Presented by



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2020 Inaugural Residency

Children's Museum of Pittsburgh (CMP) is dedicated to fostering the talent and innovation of artists as experience makers. The Museum is committed to working with artists to present excellent contemporary art to our visitors. Every year artists are invited to work with the Museum through a multitude of programs and projects, and we are committed to continuing this mission throughout our closure.

The Tough Art Residency Program that began in 2007 was approaching its 14th year in Summer 2020. Unfortunately, due to the COVID-19 pandemic, the residency in its usual format and time frame had to be canceled. We began to consider how we might engage our audience, while the Museum remains closed, using online engagement.

We were inspired to find a way to connect artists with our audience, and vice versa. This prompted the creation of the first "Tough Art @ Home" residency! Five selected artists were asked to make their work accessible to our audience by creating an art making activity related in some way to their artwork/process.

In this booklet you will find an introduction to the 2020 Tough Art @ Home Artists in Residence and their do-it-yourself art projects that you can take part in, wherever you may be!

Visit us at:

<https://www.pittsburghkidsdesign.org/tough-art-home-2020-artists>

-or-

Follow this QR Code to explore the 2020 Tough Art @ Home artists and their projects online.



Anna Garner

About the Artist

Anna Garner is an artist and educator who lives between Los Angeles and Mexico City. Anna's work examines landscape, architecture, and social patterns.

In photographs and videos, she creates fictional spaces for the camera to document. She constructs landscapes, inspired by theatrical set-design, and physically interacts within her created environments.



Camera Constructions

By Anna Garner

Materials Needed:

- digital camera or cellphone camera
- cardboard (used is perfect)
- scissors and/or box cutter
- paints (tempura, acrylic, or latex)
- paint brushes
- something to mix paint on (paper plate, spare cardboard, etc.)
- water cup
- paper towels
- household lamps for lighting (optional)

Overview:

For this DIY project, you get to transport yourself through photography to a fun, imaginary, and exciting place. Similar to the stage decorations used for holiday plays and concerts at your school. You will construct a theatrical style set and photograph you and/or your family within it. All you need is cardboard, paint, and a cell phone camera!



The Order of Mont Bleu (order 2), 2019, Chromogenic Print, 30x35"

Project- Camera Constructions

Create your own scenic installation and photograph yourself and friends in the world you create.

Materials needed:

Digital camera or cellphone camera, cardboard (used is perfect), scissors or box cutter, tape, paints (tempura, acrylic, or latex), paint brushes, water cup, paper towels, paper plate or something to mix paint on, household lamps for lighting (optional)

Camera Construction Instructions

Step 1:

Envision yourself in any place you miss or just wish you could visit right now. This place can be imagined or real. Maybe it is the lake you went camping on last year, or maybe it's a gummy bear land with giant skittles and a gummy castle. You pick.

Step 2:

Find old pieces of cardboard in your house, the bigger the better, see if you can find some cardboard that is as tall as you. If you can't find big pieces you can tape smaller pieces together to make larger ones.

Step 3:

Using scissors or a box cutter (with the help of a parent), cut out shapes and forms that represent your place. Your forms can be as realistic or imaginative as you like. Maybe you're cutting out mountains and clouds or maybe you're cutting out organic or geometric shapes that don't have a real life equivalent. I recommend drawing the shapes on the cardboard before cutting so you have a guide, and if you want a rougher look you can also tear the cardboard by hand to create an unfinished edge.



Step 4:

Once your shapes are all cut out, now it's time to paint them. Make sure you put some newspaper or plastic down before you start to prevent making a mess. Almost any kind of paint will work, acrylic, tempura, or old house paint. You can paint solid colors or paint a design or a scene. Gluing on glitter or pieces of colored construction paper is another option.

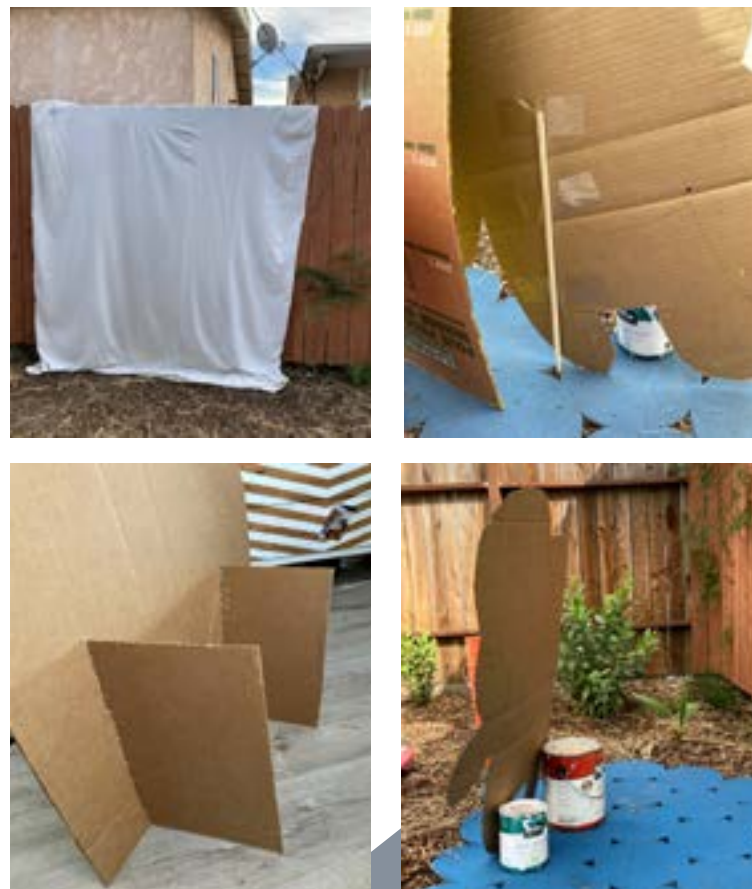


Step 5:

Now it's time set up your cardboard pieces and photograph! Make sure all the paint or glue is dry first! Then read through the following set up, lighting, and photographing tips to get the best results. (on following pages)

Set Up Tips:

- Find a spot outside or inside your home that is mostly empty, so you won't have unwanted items in the background. You can also use sheets to create a blank backdrop.
- To set up your pieces you can tape them to the wall or hot glue cardboard support beams on the back to stand on their own. You can also use household items such as a small step stool, sawhorse or bucket to lean them against. Duct tape, masking tape, or packing tape are great to secure the pieces so they won't move.
- Create distance between the pieces and try placing them an arms distance apart. This way you can stand inside your set and it won't be only a backdrop.
- Lastly, rearrange several times. There are so many options of how you can piece things together so make sure you try



Photographing and Lighting Tips:

- If you are photographing outside think about doing it in the morning or late afternoon to avoid the harsh noon sun.
- If you are photographing inside see if you have a couple lamps that you can use to create some dramatic lighting. Desk lamps with bendable/moveable necks work great because you can point the light in different directions.
- Get your camera or phone close enough/zoomed in enough to crop out anything that is not part of your constructed set.
- Instead of just smiling and looking right at the camera, play around with your poses. Look off to the side, play with your set pieces, interact with your family member. Have fun!
- Take lots of shots so you have many to choose from (I generally use 1 out of 50 images that I take).

Step 6:

Select a few of your favorite images and do some minimal editing through whatever you have available. Even the basic functions on a phone offer lots of possibilities. Crop in the image, add some contrast, or put a blue cast over everything. Anything you want!



Brooke Barker

Step 7:

Share the images! Send your photos to the Children's Museum of Pittsburgh on social media using-

#ToughArt@Home #PGHKids @pghkids

Send to friends or family via email, or even print them out and mail as postcards.

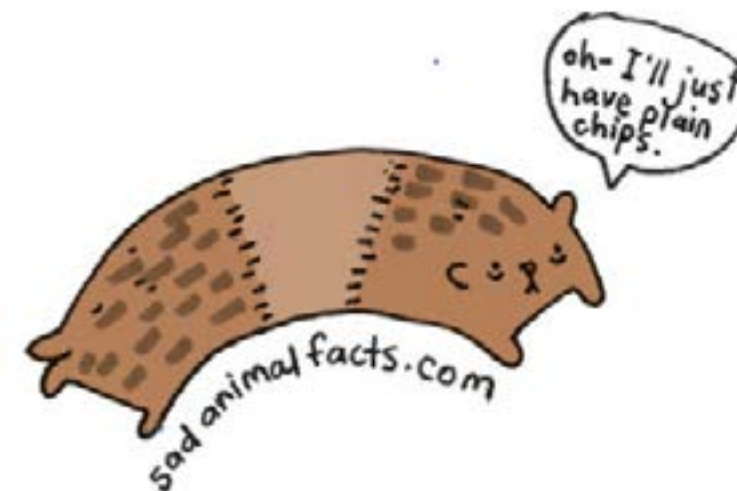


About the Artist

Brooke Barker is a Pittsburgh-based author and illustrator. Her New York Times bestselling book *Sad Animal Facts* and its sequel *Sad Animal Babies* are full of tragic truths about adorable animals, and the books have been published in ten languages. She has created work for National Geographic, The New York Times, and The Guardian. Her favorite animal is the red fox.



GUACAMOLE IS EXTREMELY
POISONOUS TO HAMSTERS



Project- Sad Animal Facts

Illustrate your own cartoon animals inspired by sad facts.

Materials needed:

Paper,
pencil and/or pen,
something to color with
(colored pencils, crayons, markers)

Visit us at:

<https://www.pittsburghkidsdesign.org/project-brooke-barker>

-or-

Follow this QR Code to watch a video of Brooke showing you step-by-step how to create your own Sad Animal Fact:

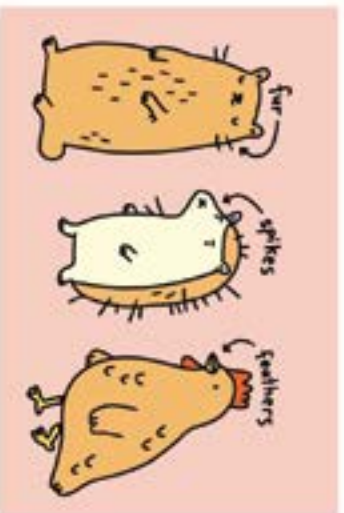


MAKING YOUR OWN SAD ANIMAL FACT WITH BROOKE BARKER



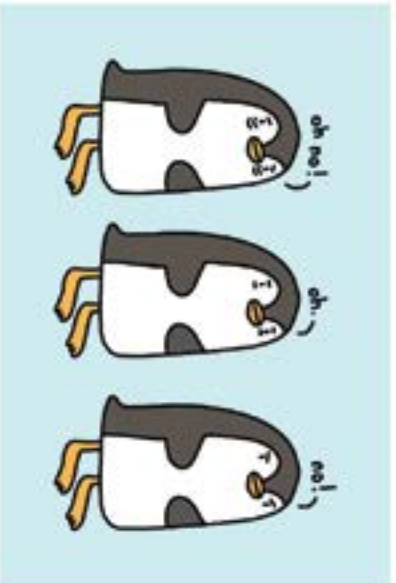
1) First, gather your supplies.

4) Animals can be covered in fur, feathers, scales, spikes, spots, or stripes, but you don't need to draw every single one. Instead you can just draw a few of them. Usually I draw them in groups of two or three.



2) Choose an animal fact you'd like to illustrate. You can use a book or nature program for inspiration, write a fact about your pet, or use one of these:

- BLOBFISH HAVE NO MUSCLES
- BEES HAVE HAIR ON THEIR EYES
- FOXES LIVE ALONE
- AN OPOSSUM MOM CARRIES HER BABIES ON HER BACK
- OWLS HAVE EYETUBES INSTEAD OF EYEBALLS
- HORSES CAN SLEEP STANDING UP
- SOME LIZARDS USE PUSH-UPS TO SAY HI

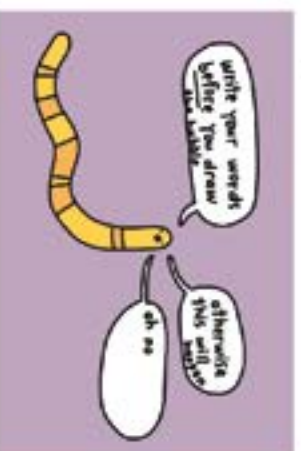


5) Eyebrows can change a drawing's mood, just ask this penguin.



3) I like to draw in pen and make any mistakes a part of my drawing. Mistakes make your drawing unique, and they give your animal more personality. And if your animal drawing has extra long legs or a different kind of ears, or wiggly stripes -- you just invented a new animal.

6) The secret to drawing speech bubbles is to write the words first! After you've written the words, draw the speech bubble around them.



Ibiyinka Alao

About the Artist

Ibiyinka is an artist, ambassador, filmmaker, architect and author who won the first place of a United Nations International Art Competition amongst 61 countries. His paintings are primarily about redemption, peace and love.

When creating arts, Ibiyinka uses many different mediums, such as water color, acrylics, oils and tempera. He believes that working in a single medium is restrictive to his artistic process. Each idea manifests in its own individual style.

As a little boy growing up in Nigeria, Africa, he enjoyed catching fireflies and looking up at stars. Whenever he looked up to the sky, Ibiyinka made pictures out of stars by connecting the dots in his mind. Ibiyinka's dad is his only hero and he got lots of inspirations from him.



Project- Painting Light

Learn how to tell a story through your art and enjoy a painting with light tutorial.

Materials needed: Paper, paint (watercolor is ideal), paint brushes, water cup, and paper towels



Fireflies painting, "Eternity in our Hearts," 18 ft x 5 ft

Visit:

<https://vimeo.com/477764783>

-or-

Follow this QR Code to watch a video where Ibiyinka will teach you how to *Paint Light*:



Jeff Repko

About the Artist

Jeff Repko creates assemblages that explore potential and possibilities through interactions of color and forms. Born in Pittsburgh after deindustrialization, his work explores notions of industry and the stories he heard growing up. Never truly having experienced the industrial era in the Pittsburgh, he feels both a distance and closeness to it. His work is a personal attempt to experience and create the physical objects, optimism, and a sense of community.

Jeff is an artist and educator currently based in Atlanta, Georgia. His work is exhibited nationally in both public and gallery settings. He had a show last year at Unsmoke Systems Artspace in Pittsburgh. His practice combines traditional sculpting methods with modern fabrication techniques to explore notions deindustrialization and the transition to contemporary digital technologies.



"Momental V2", 2018

Project- Marvelous Machines

Build and paint your own industrial-inspired machine sculpture.

Materials needed:

Cardboard boxes and/or paper, paints, paint brushes, water cup, paper towels, paper plate or something to mix paint on, glue, and scissors

MARVELOUS MACHINES

PROMPT: The world is full of amazing machines and technologies. Cars, planes, boats, computers and other machines work together to build a world full of limitless opportunities. Using your imagination and supplies at home, what fun and exciting machine could you come up with? Make sure you remember to give your sculpture a rad paint job to show it off!

STEP ONE: GATHER YOUR SUPPLIES

For the first step you are going to gather the supplies you need to help build your awesome new sculpture. You will need; cardboard boxes and/or paper, paints, paint brushes, water cup, paper towels, paper plate or something to mix paint on, glue, and scissors.



STEP TWO: BRAINSTORMING

There is a storm brewing so you better get out your umbrella for this step! Think about what you want your sculpture to do! Will it fly, swim, cook, teleport you to the moon or eat those pesky vegetables so you can go play. The possibilities are endless.



STEP THREE: BASE CONSTRUCTION

Get out those hardhats and safety goggles! It's time for you to build your sculpture. Find some old cardboard boxes or supplies around the house. If you do not have any at home you can always ask your neighborhood grocery store for extra boxes. Use glue, tape and scissors to build the foundation of shapes for your mechanical sculpture.



COLOR MIXING GUIDE

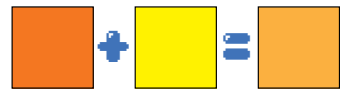
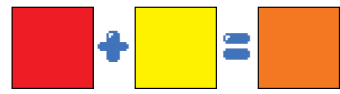


STEP FOUR: PAINTING

Grab your brushes and favorite paints for this next step. You will now paint your sculptural pieces. Just like there are many combinations for the sculptural pieces to use, there are endless colors out there to mix!

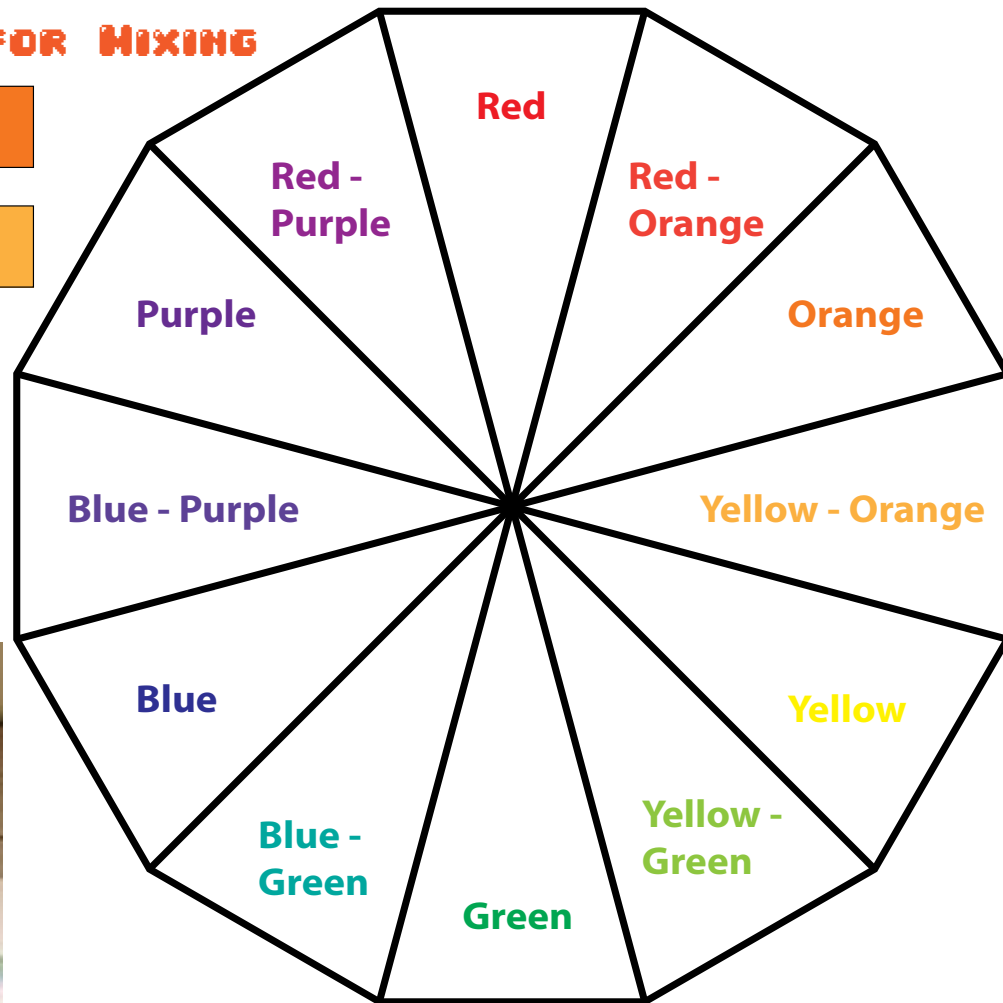
Try mixing red and yellow to make orange! Or you can even mix orange and yellow to make yellow - orange. Coming up with your colors can be just as fun as painting your sculpture. Use the blank color wheel below to practice mixing these colors

EXAMPLES FOR MIXING



PRACTICE:

On the bottom you can come up with your own colors and color combination to use for your sculpture!

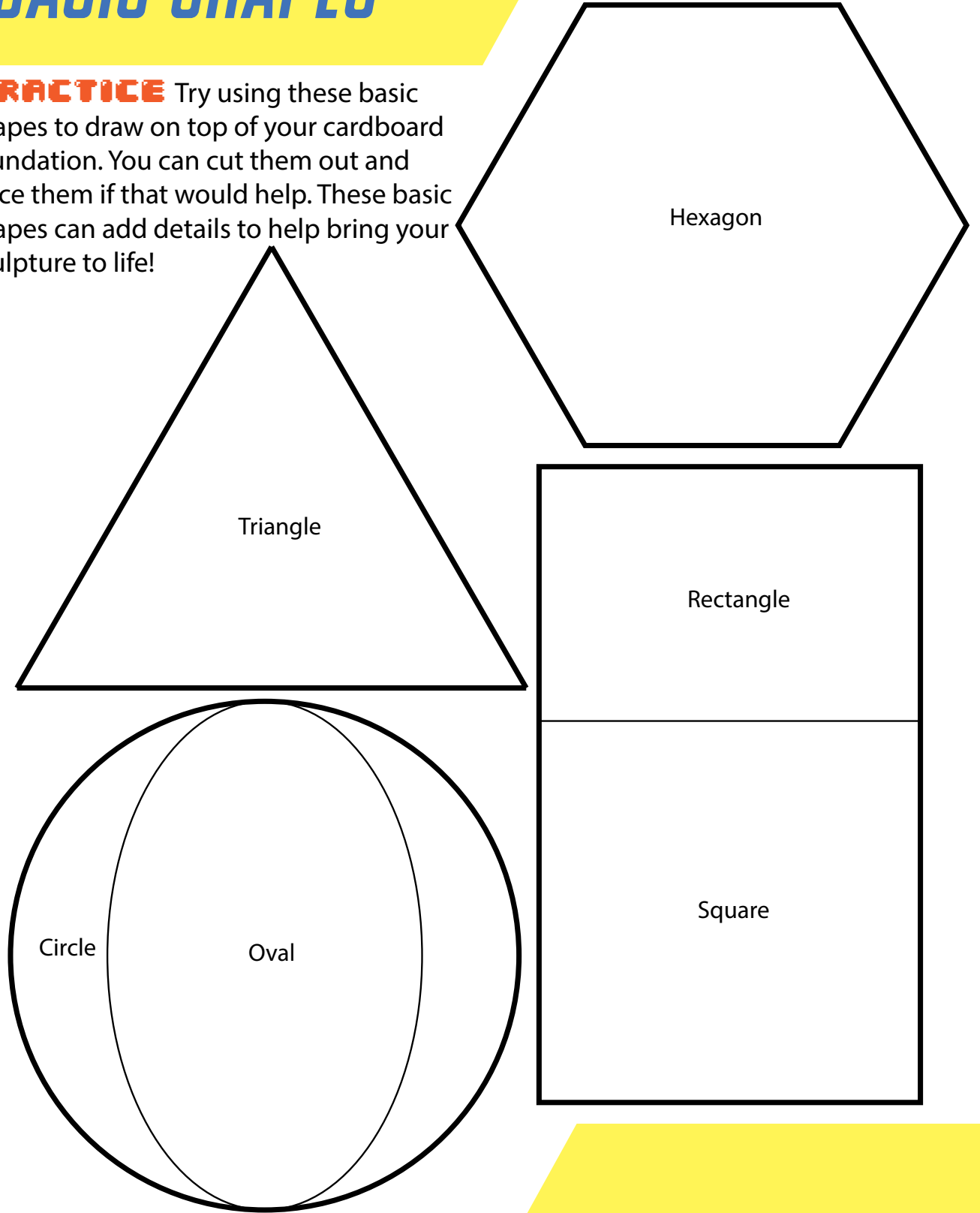


COLORS FOR SCULPTURE

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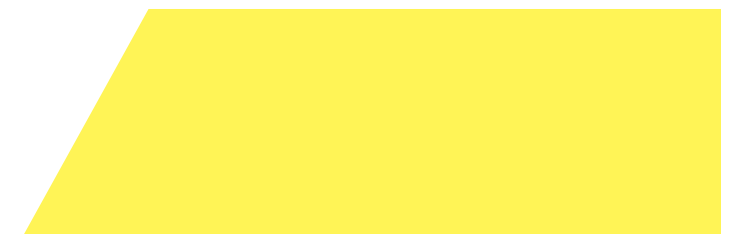
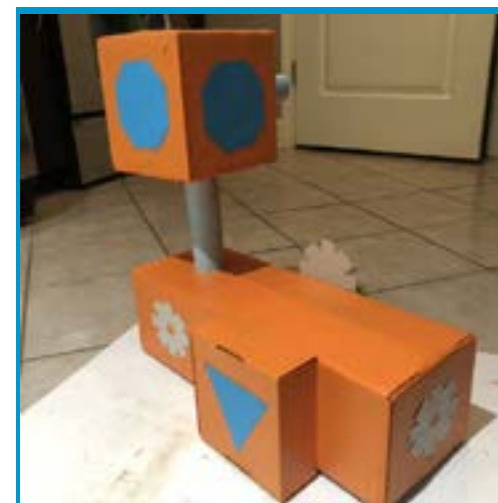
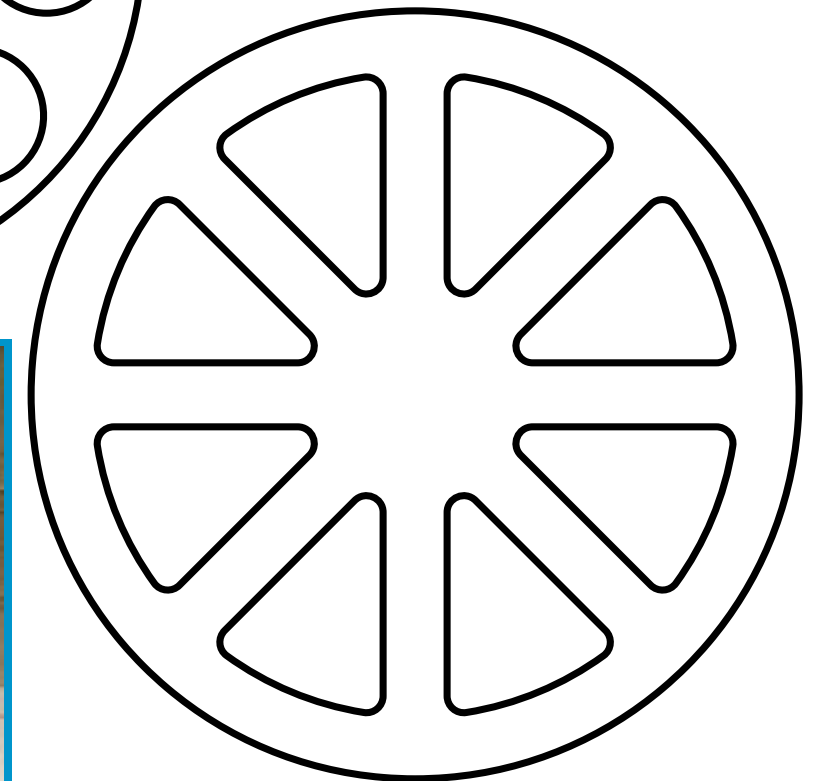
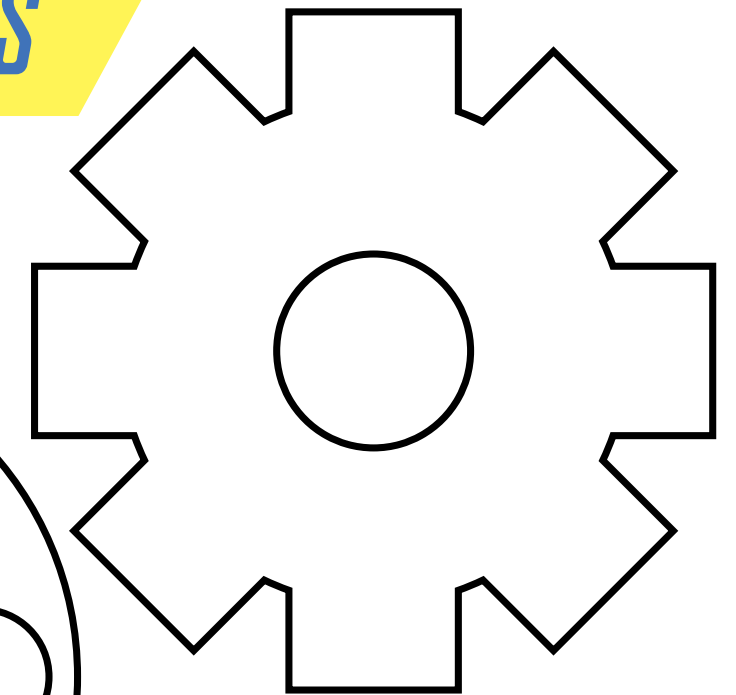
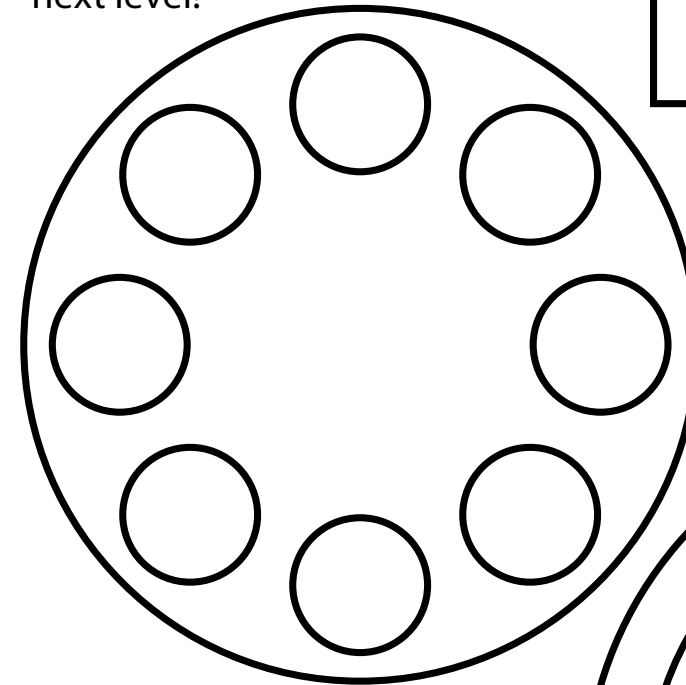
BASIC SHAPES

PRACTICE Try using these basic shapes to draw on top of your cardboard foundation. You can cut them out and trace them if that would help. These basic shapes can add details to help bring your sculpture to life!



COMPLEX SHAPES

PRACTICE These are more advanced shape cutouts you can use to take your machine to the next level!



MARVELOUS MACHINES

STEP FIVE: BRING IT TO LIFE

Your sculpture runs on the best fuel out there, your imagination. So, it is up to you to bring it life. Share it with your friends, family and the whole world.

You can post pictures on instagram using the tags:

#toughart@home #pghkids #jeffrepko
@pghkids @jeff_repko.

By sharing and bringing your sculptures together with others, you open up countless other possibilities!



BONUS LEVEL

BONUS LEVEL!

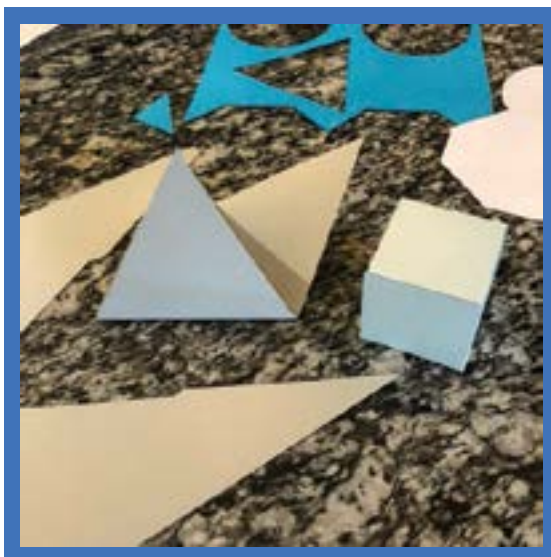
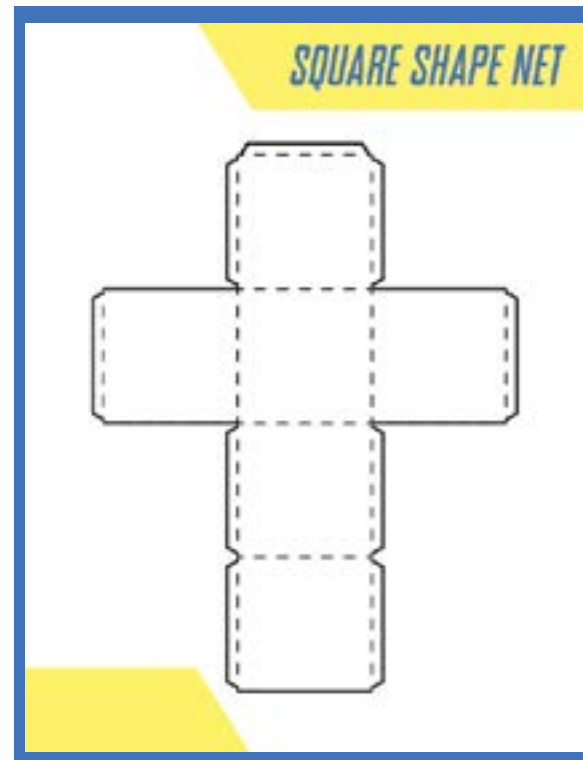
If you want to take your sculpture to the next you can use the shape nets provided here or find more online.

Shape Nets act as a map to help you create 3d dimensional shapes.

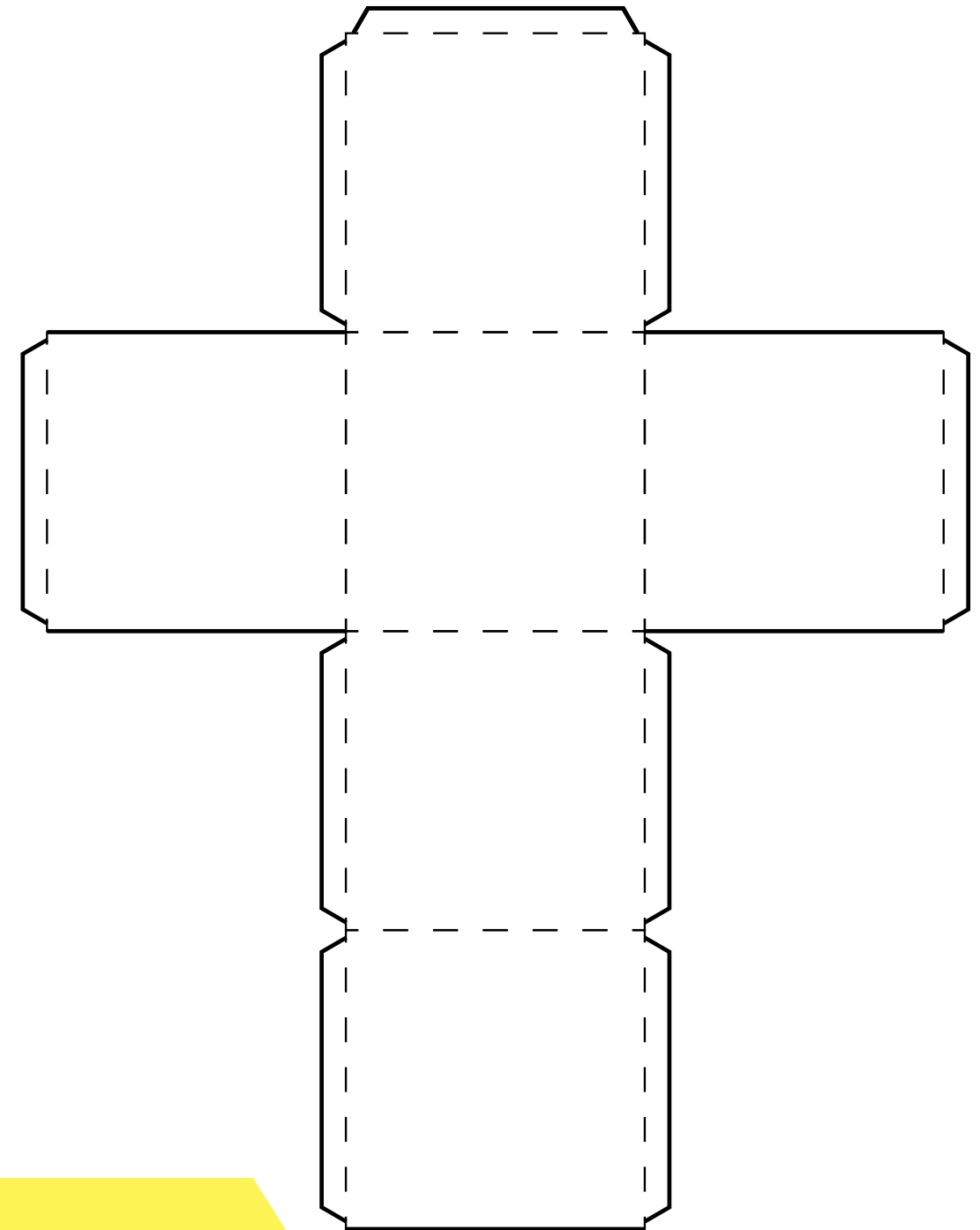
When using this map cut out the form along the dark outlines.

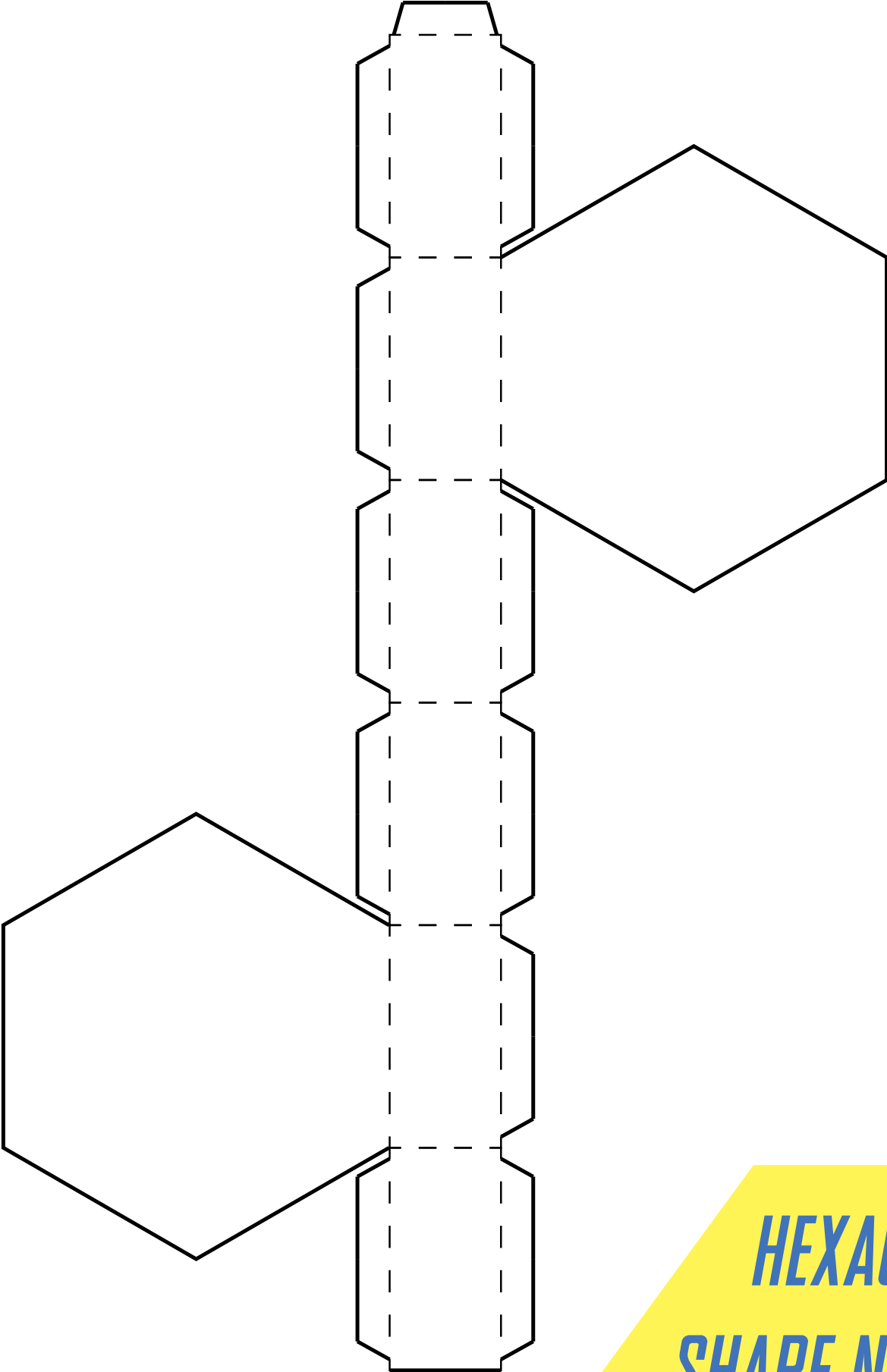
Then use the dashed-lines as guides for folding. The tabs on the edges are there to help you glue the shape together!

These extra shapes can bring new dimensions to your sculpture.



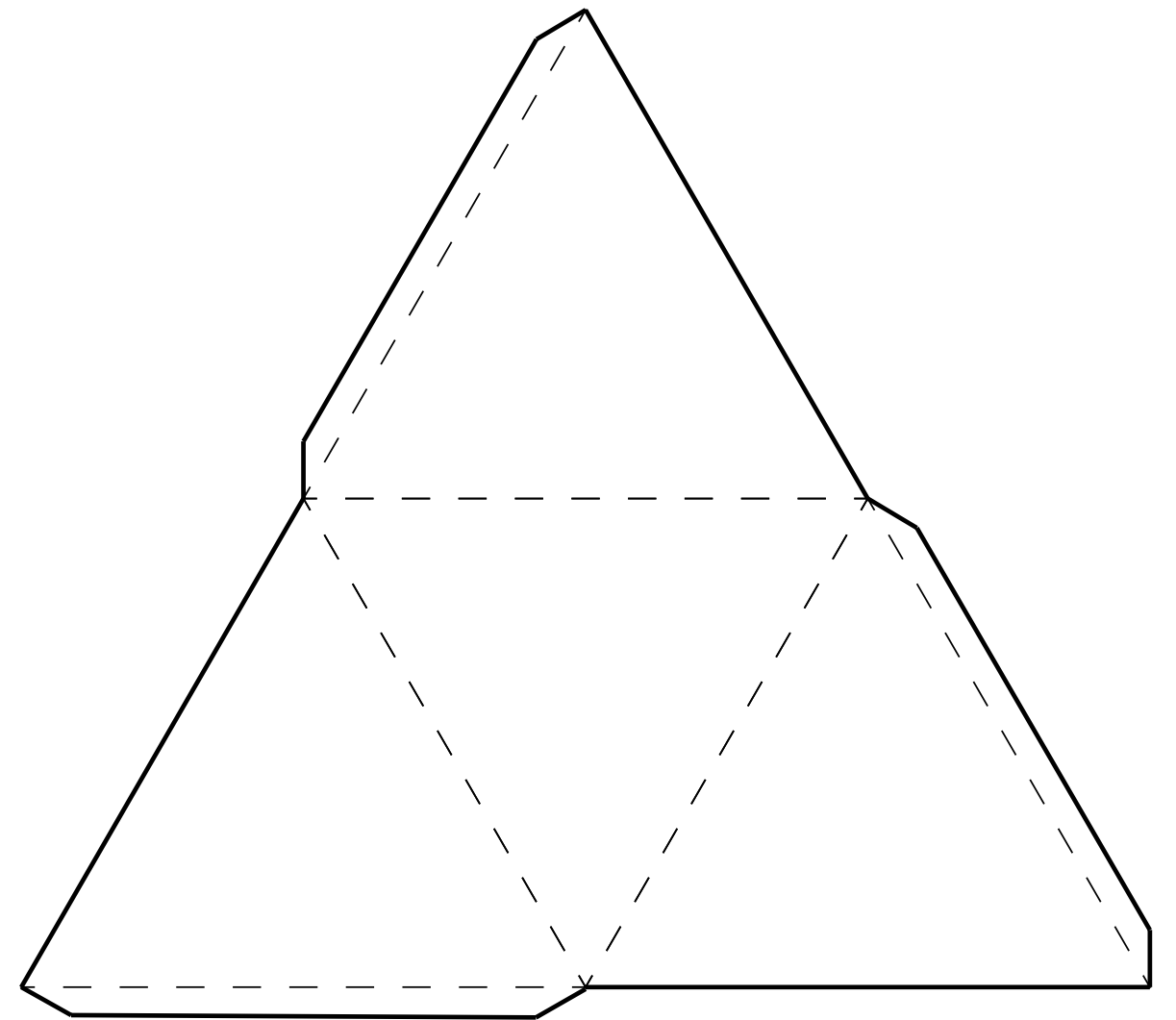
SQUARE SHAPE NET





***HEXAGON
SHAPE NET***

PYRAMID SHAPE NET

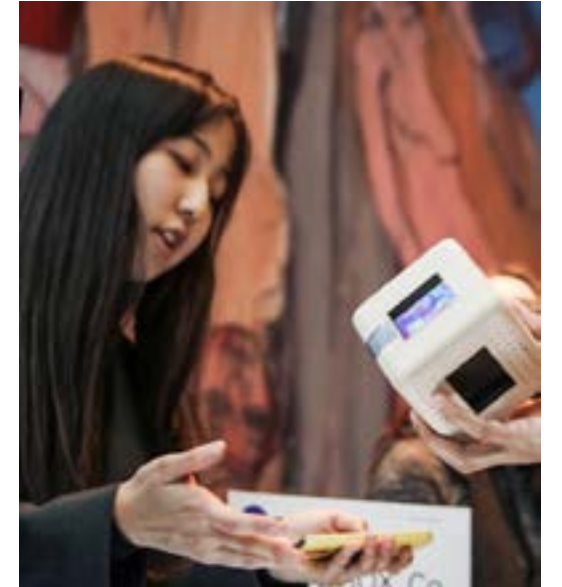


Suwan Kim

About the Artist

Suwan Kim is a media artist and creative technologist, living and working in the US. Suwan mainly works with electronic and interactive media such as projection mapping, sensory robotics, and often explores ways to create immersive and engaging environments for a wide range of audiences through her installations.

Her goal as an artist is to design to aid the ways of every living: staging day-to-day events and unique experiences, and paths of learning for people through blending various design and artistic platforms.



Project-

Pop-Up Shadow Puppet Theatre

Create your own mini-theatre to tell your own stories!

Materials needed:

Letter sized paper, scissors and/or utility/X-Acto knife, tape, colored pencils, glue stick, tissue or tracing paper, toothpicks, cellphone or tablet device (for light)



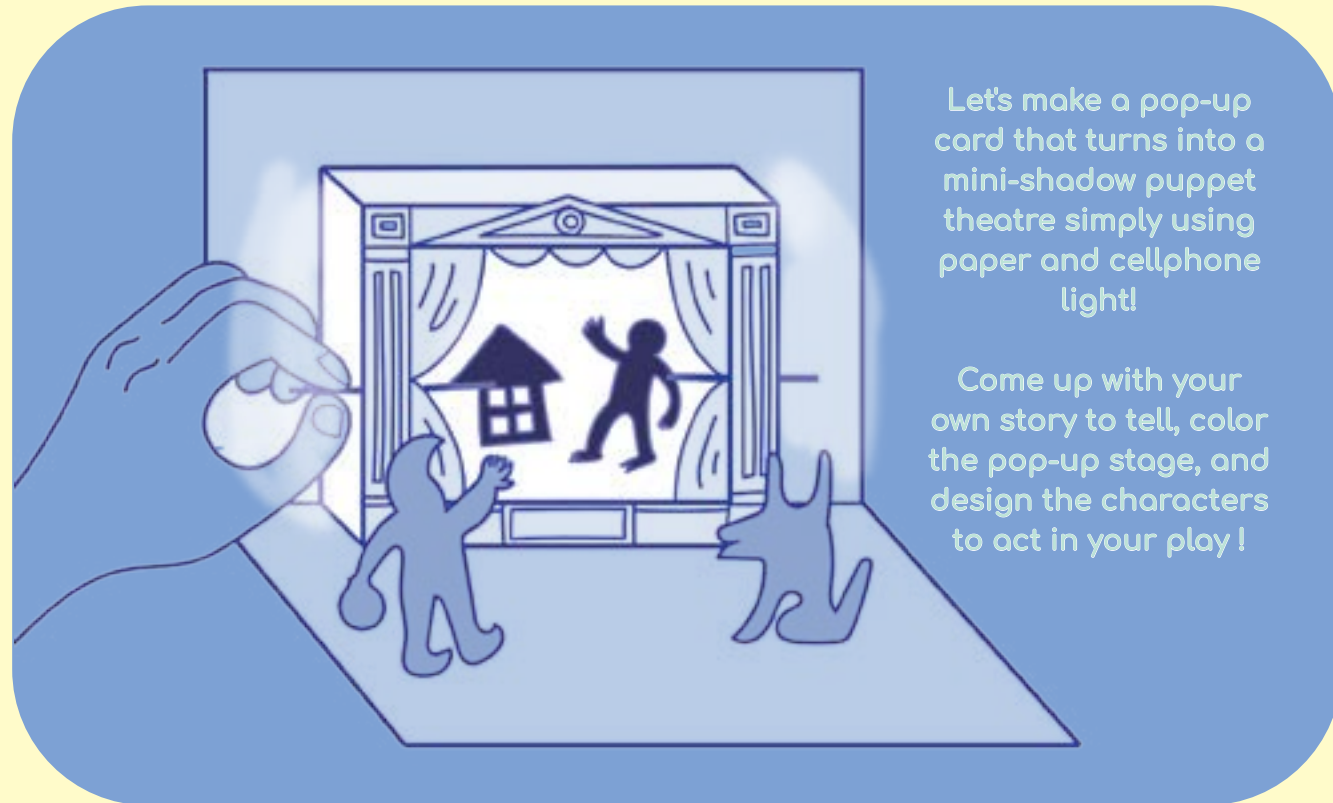
The Ski Resort (left), The Globe (right), 2019



to view the video
of this artwork

Create Your Own Pop-Up Shadow Puppet Theatre!

With Artist Suwan Kim



Let's make a pop-up card that turns into a mini-shadow puppet theatre simply using paper and cellphone light!

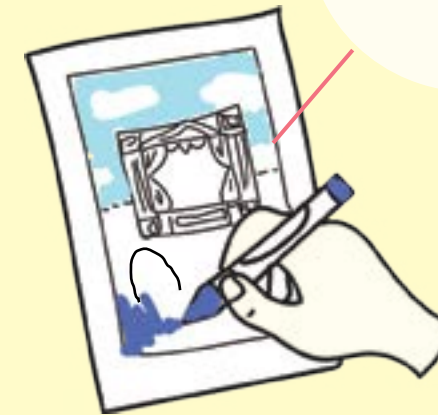
Come up with your own story to tell, color the pop-up stage, and design the characters to act in your play!

You will need:

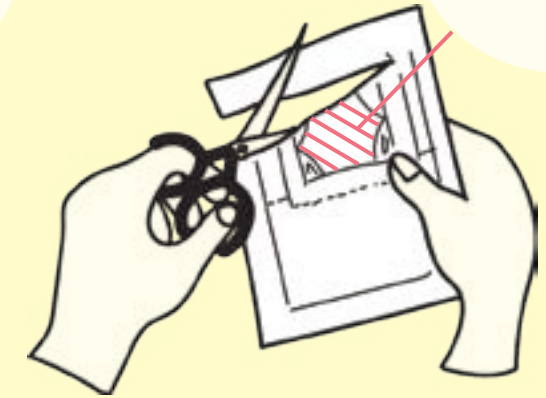


INSTRUCTION:

Template
A pattern used as a guide for cutting or drawing



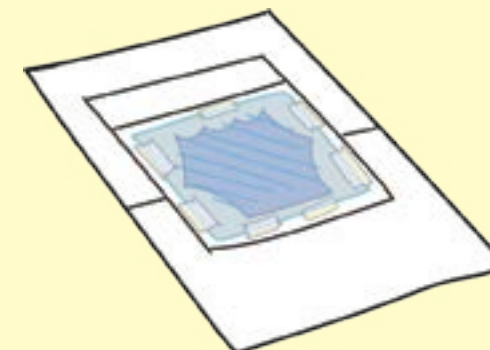
Screen
A broad, flat surface on which you see images.



STEP 1:

Print the popup card **template** on page 4. With the coloring tools, sketch out your theatre stage, color the background, and the floor on the template.

Design the standing figures to introduce your stage to the audience. Are they animals? people? What style of clothes are they wearing?

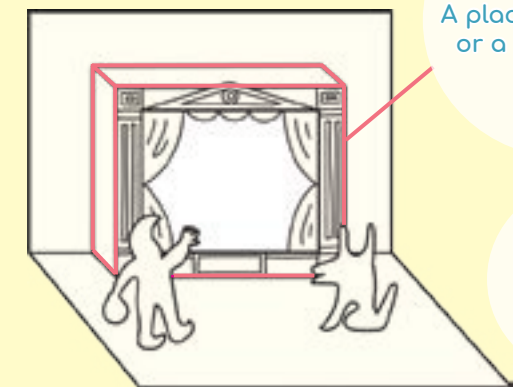


STEP 2:

Cut the outline of the template using scissors. With a utility knife, cut the black lines drawn inside of the template.

Make sure the **screen** part of the stage is entirely cut out in order to replace it's empty part with tracing paper or tissue paper.

Stage
A place for an event or a performance



Right angle:
90°

STEP 3:

Flip to the back of the pop-up card template and cut a sheet of tracing paper or tissue paper into 2.5 x 3 inches. Tape it carefully to cover the opening you have just cut out.

Make sure the tissue paper or tracing paper is attached tightly without any wobbly parts.

STEP 4:

Fold the card following the template guide to make the theatre **stage** part to fold into a rectangular box form.

Fold the standing puppets at a **right angle** to the floor so they stand up.

INSTRUCTION :

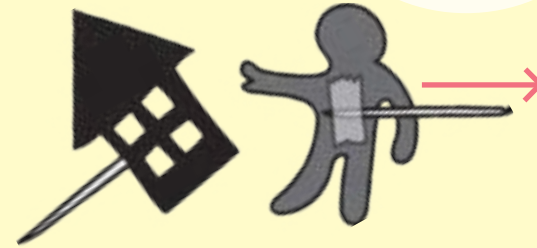
Silhouette

An in outline of a person, animal, or object usually filled in as black color.



Horizontal

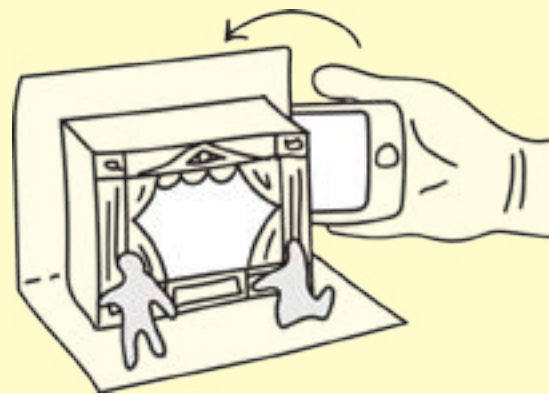
Something horizontal is arranged sideways, like the horizon on earth.



STEP 5 :

Now, you are going to make your shadow puppets.

On page 5, draw **silhouettes** of the characters in your story - cut, and color them black.



STEP 7 :

You will use a cell phone or a tablet screen as a light source. First, set the brightness of a phone at its brightest setting.

Then go on Google or Youtube to search for a 'blank screen' image and display it on full-screen mode.

Position the phone at the back of the card, shining directly at the screen to light it up.

STEP 6 :

Flip the paper cut puppet pieces to the back and tape the toothpicks on the surface to use them to hold and move the puppets when you play.

Make sure the toothpicks are attached **horizontally** pointing toward the sides.



STEP 8 :

Turn the light off so that the room is dark enough for the shadow play.

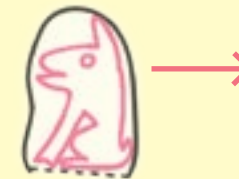
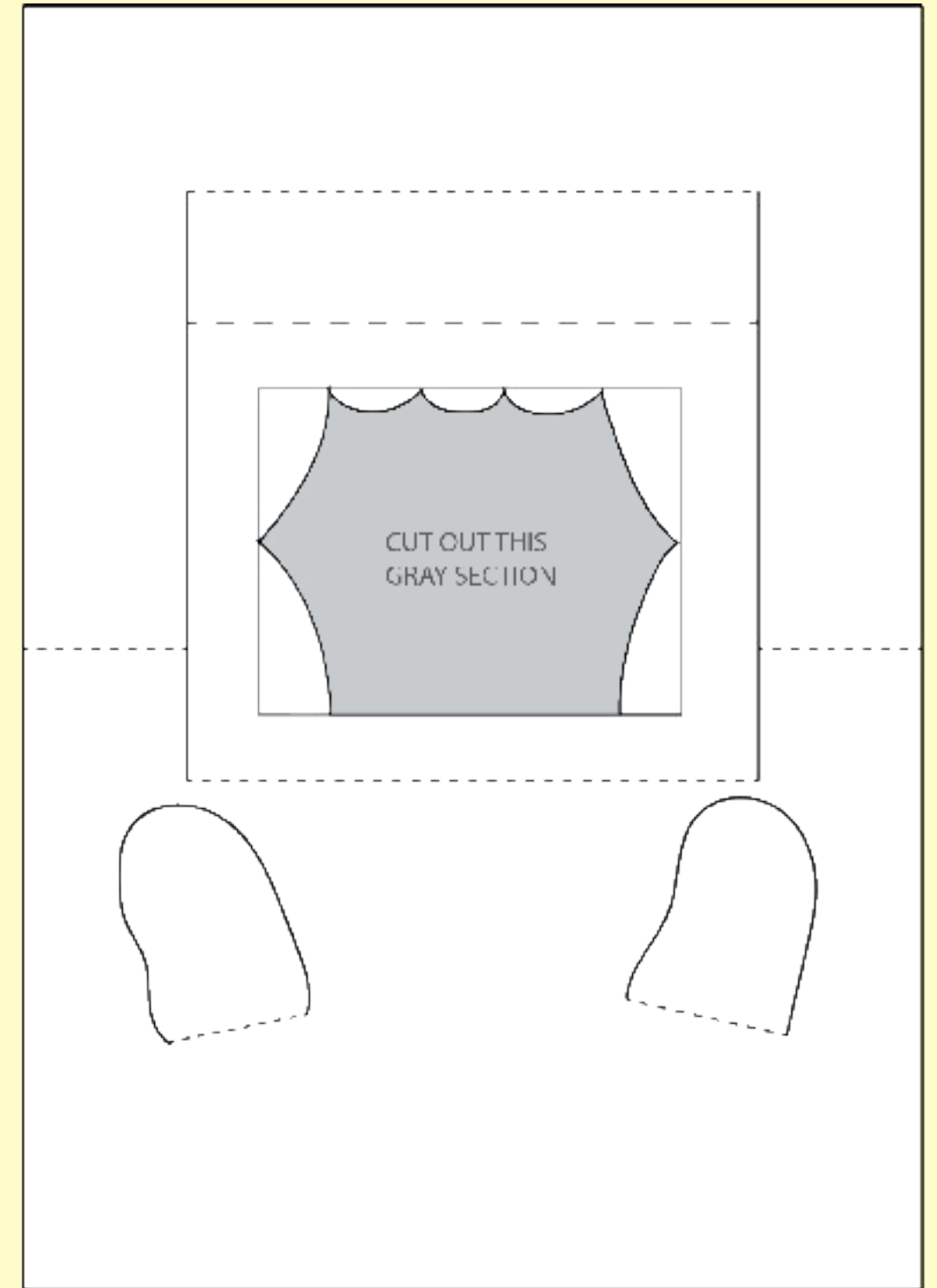
Now, it's time to tell your story with the shadow puppets!

Gather your audience and place the puppet figures behind the stage screen to create shadow effects.


Enjoy!


POP-UP CARD TEMPLATE


If you want to make a much bigger pop-up card and use a tablet device as a light source, you can use this page as a guide and draw your own template on a sheet of paper. (preferably on cardstock paper or cereal box)



Draw your own standing puppets and cut the outline within the size of this guideline

 For your safety, ask an adult for help when using the cutting tools.

 When using a utility knife, place a cutting mat or a hardcover book underneath to avoid damaging your workspace.

 If you don't have cardstock paper to print, gluing the printed template onto a cereal box will make the card stable.

----- Fold backward

----- Fold forward

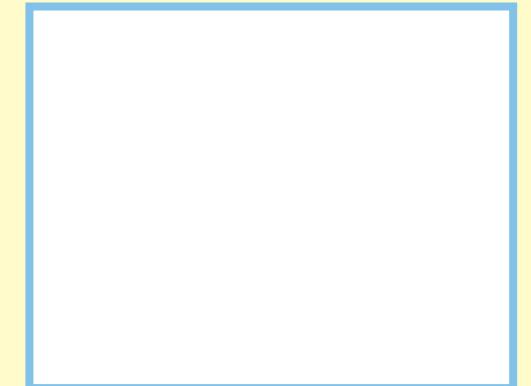
————— Cut along the line

Make Your Shadow Puppets !

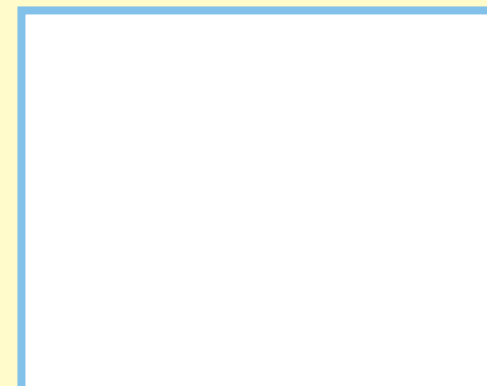
Imagine how the characters look like and how they will act on stage



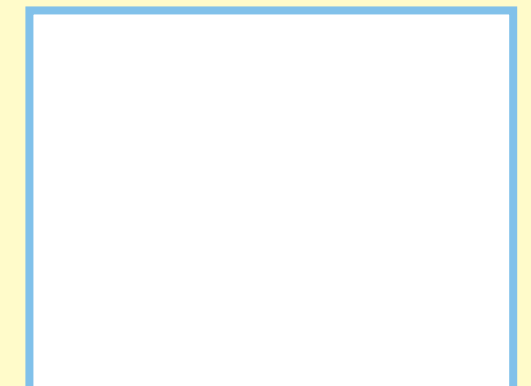
Draw, color, and cut your shadow puppets in the box!



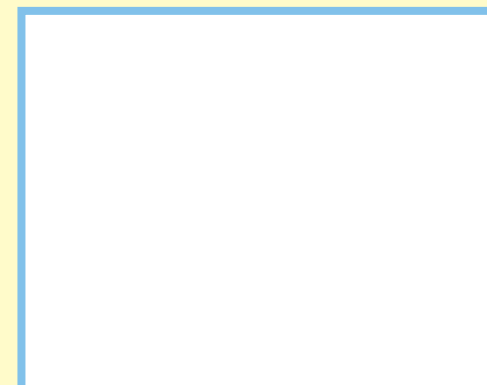
Draw, color, and cut your shadow puppets in the box!



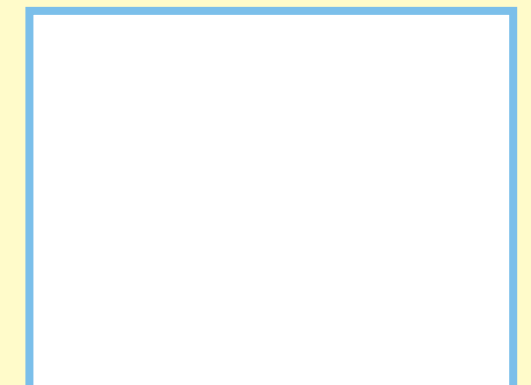
Draw, color, and cut your shadow puppets in the box!



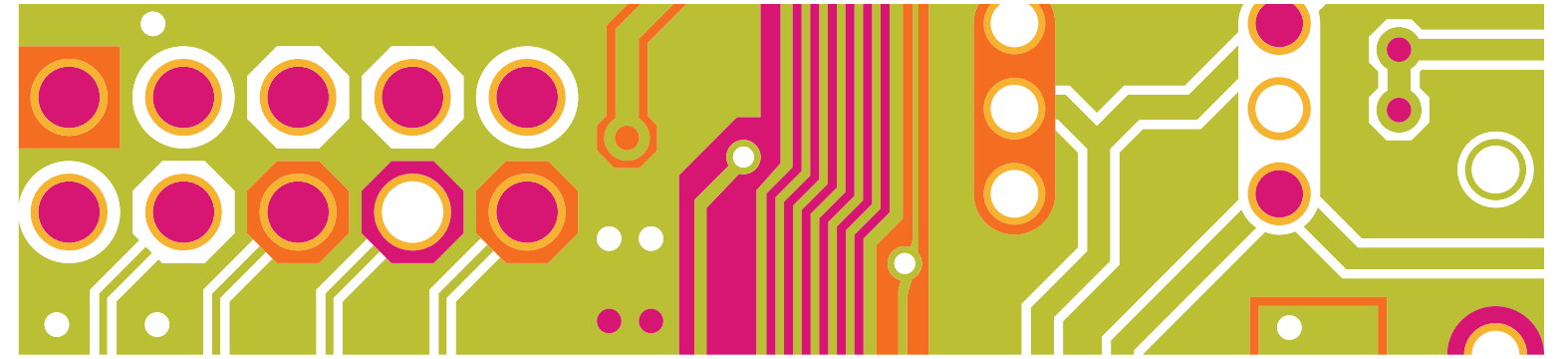
Draw, color, and cut your shadow puppets in the box!



Draw, color, and cut your shadow puppets in the box!



Draw, color, and cut your shadow puppets in the box!



Share your artwork with us!

@pghkids

#pghkids

#toughart@home

