

*camp*  
**STEAM**  
 SUMMER 2017



*summer  
 fun for  
 families*



*day 3:*

## PAPER FUN



*activities*

watercolor houses  
thaumatropes  
paper circuits

*station*

newspaper structures

*snack*

seaweed rolls

*game*

rock, paper, scissors tag



## materials

- **Watercolor Paper**
- **Cardstock**
- **Scissors**
- **Bamboo Skewers**
- **Tape/Glue Stick**
- **Pipettes/Paintbrushes**
- **Pens**
- **Xacto Knife**
- **Liquid Watercolors/Food Coloring**
- **1/4" copper tape**
- **CR 2032 coin cell battery**
- **5 mm LED bulb**
- **Newspaper**

## prep

### The Day Before Camp:

- Print out templates for each participant.
- Clear off a large work area and cover with butcher paper if desired.
- Gather materials for each project and distribute them on three separate trays.
- **Snack Prep:** Make rice and chill in refrigerator.

### Day of Camp:

**Watercolor Houses:** Mix watercolors/food coloring with water in separate containers.

**Newspaper Structures:** Make a few sample tubes out of newspaper and form them into a triangle at the station for reference.

**Snack:** Slice cucumbers.

# activity 1: WATERCOLOR HOUSES

difficulty level



## materials

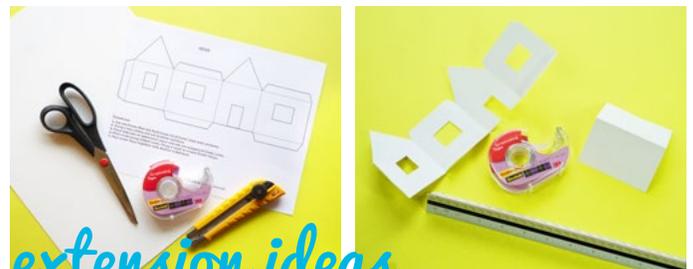
**Watercolor Paper\***  
**Cardstock**  
**Scissors**  
*(Adults only)*  
**Tape/Glue Stick**  
**Liquid Watercolors**  
**or Food Coloring**  
**Pipettes**

*\*Cardstock may be substituted for the watercolor paper in the entire project, however please note it is less absorbent.*

## what's the steam?

These houses show how 2-D shapes can transform into 3-D forms which develops math skills and is an important tool for engineers and architects.

The watercolor drip painting showcases the effects of gravity on the creative process.



## extension ideas

- Use squirt guns to paint the house!
- Play house painter and be more exact with the painting.
- Assemble a group of houses into a village.

## more

### Suggested Reading:

*Iggy Peck, Architect*  
*Animal Architects, Amazing Animals*  
*Who Build Their Homes*  
*Roberto, the Insect Architect*

### Watch:

[Timelapse House Build](#)  
[Cardboard Play House & Slide](#)



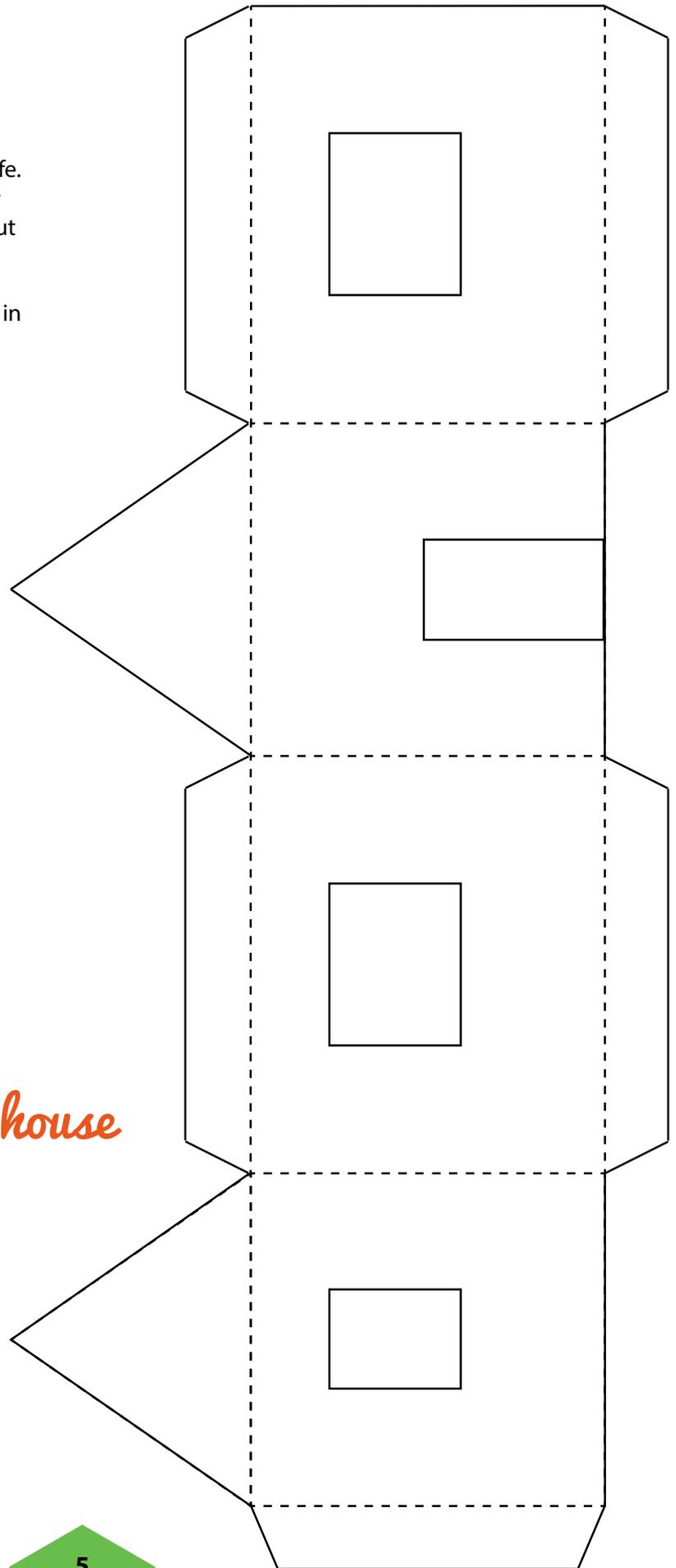
# instructions

## Build the Paper House

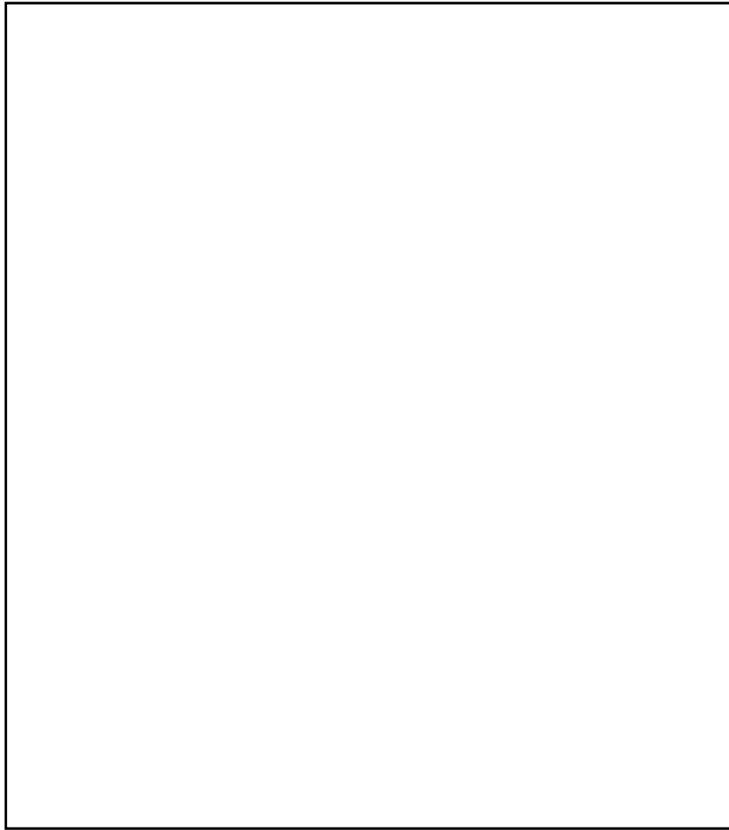
- Print the templates. Cut along the solid lines. Adults may cut the windows with an Xacto knife.
- Trace the templates onto the watercolor paper and cut out along the solid lines. Adults may cut windows if desired.
- Fold your house at the tabs where the dotted line would be (refer to the template). Fold roof in half along center line.
- Tape/glue the roof and walls together at the tabs. Tape the house to the base.

## Color the House

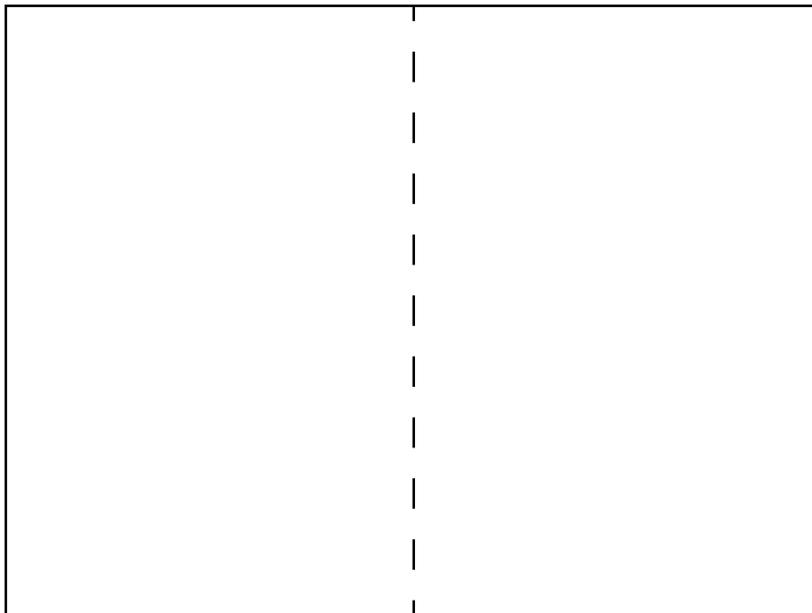
- Place liquid watercolors or food coloring in small containers.
- Use pipettes or brushes to drip, splatter and brush the paint on the houses.



base



roof





## camp STEAM OVERVIEW

- digital guides* } Camp Activity Planner  
Camp Success Guide  
Printable Activities
- support* } Facebook Live Demos  
Private Facebook Group

## camp STEAM KEY DATES

- june 14* } Camp STEAM Guide emailed to participants
- july 17-21* } Camp STEAM Session 1
- july 31-aug. 4* } Camp STEAM Session 2
- august 14 -18* } Camp STEAM Session 3

*one week prior to each session will be a prep week with live support*

