COLOR BY NUMBER

1 - BLUE
2 - ORANGE
3 - GREEN
4 - GREY
5 - RED
DIRECTIONS
Cut out each flashcard and have kids build the shape or structure using marshmallows and toothpicks.

SUPPLIES NEEDED
• Mini marshmallows
• Rounded toothpicks

TIP
Discuss with kids the shapes they are building, colors of the marshmallows, and what toothpicks are made of.

- **Build a square**
  - Use x4
  - Use x4

- **Build a triangle**
  - Use x3
  - Use x3

- **Build a tetrahedron**
  - Use x6
  - Use x4

- **Build a prism**
  - Use x9
  - Use x6

- **Build a cube**
  - Use x8
  - Use x12

- **Build a pyramid**
  - Use x7
  - Use x5
DIRECTIONS
Follow and cut the dotted lines for each construction activity.

SUPPLIES NEEDED
Scissors

TIP
Discuss with kids what each equipment is used for.
CONSTRUCTION SCISSOR PRACTICE
**BUILD WITH NUTS & BOLTS**

**DIRECTIONS**
Build “10” using the correct number of materials.

**SUPPLIES NEEDED**
Nuts and bolts

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BUILD WITH NUTS & BOLTS

Create your own numbers for the flashcards below
DIRECTIONS
Match each construction equipment with the right movement.

TIP
Have kids perform each movement once they make the right match.
BIG MACHINE MATCHING GAME

**Pair One:** Spin, Cement Mixer  
**Pair Two:** Dig, Excavator  
**Pair Three:** Tip, Dump Truck  
**Pair Four:** Scoop, Loader  
**Pair Five:** Push, Bulldozer  
**Pair Six:** Pull, Crane  
**Pair Seven:** Lift, Forklift  
**Pair Eight:** Stomp, Jackhammer
CONNECT THE DOTS
DIRECTIONS
Have kids work as a team to construct their own neighborhoods.
1. Cut out the house outline below.
2. Draw a house design.
3. Glue the house on a piece of cardboard that’s cut to the size of the house.
4. Cut out a slot to create a stand for the house.
5. Insert a piece of cardboard in the slot to create a stand for the house.
6. Arrange the house to form a small neighborhood.

SUPPLIES NEEDED
• Scissors
• Crayons
• Cardboard
• Glue

TIP
Ask kids to explain their house design and list the steps they think are needed to build their house on the work order sheet prior to building. Have kids cut out and prop up the construction signs.
**HAMMER THE SYLLABLES**

**DIRECTIONS**
For each word, hammer the number of syllables and build it using the right number of building blocks.

**SUPPLIES NEEDED**
- Toy hammers
- Building blocks

- Crane
- Hammer
- Cone
- Bulldozer
- Toolbox
- Excavator
- Jackhammer
- Screwdriver
TOOLS MATCHING GAME

DIRECTIONS
Match each tool with its right use.

TIP
Demonstrate the tool after kids make a successful match.
Pair One: Saw, Wood
Pair Two: Wrench, Leaky Faucet
Pair Three: Power Drill, Wood
Pair Four: Screwdriver, Screw
Pair Five: Hammer, Nail
Pair Six: Pliers, Metal
Pair Seven: Tape Measure, Cabinet
Pair Eight: Wire Cutter, Wire
DIRECTIONS
Build and create the item on each flashcard. Use the blank cards to create your own challenges.

SUPPLIES NEEDED
LEGOs

BUILD A CAR

BUILD A HAMMER

BUILD A SKYSCRAPER

BUILD YOUR FAVORITE ZOO ANIMAL

BUILD AN AIRPLANE

BUILD A ROBOT

BUILD YOUR HOUSE

BUILD A CASTLE
LEGO BUILDING CHALLENGE
**DIRECTIONS**
Create a blueprint for your dream home.

1. Create copies and print out the desired number of room sections.
2. Cut up each section and tape together to create the house layout.
3. Color code each room.

**SUPPLIES NEEDED**
- Scissors
- Crayons
- Tape

**TIP**
Have kids list the rooms in their dream home and create a color-coded key.

<table>
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<th>Color Code</th>
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DIRECTIONS
Build each bridge type by using the following diagram.

1. Copy and draw the bridge design out on paper using a ruler and pencil.
2. Use rubber bands to tie the spaghetti pieces into multiple bunches.
3. Using your diagram as a guide, cut the bunches to different lengths to assemble each section of the bridge.
4. Once the lengths are all correct, hot glue gun to glue the ends of each “bunch” of spaghetti to tie them together.
5. Use the hot glue gun to glue all the individual bunches together.
6. Build out the following design for the base and then glue the side components together with it to complete the bridge.

SUPPLIES NEEDED
• Uncooked spaghetti
• Hot glue gun
• Pen/pencil
• Ruler
• Paper
• Rubber bands

TIP
Have kids test the strength of their bridge and placing different materials on it.