

# CAMP CHALLENGE BUILD A BRIDGE

#### **Challenge:**

Plan, design and construct a bridge that can hold the weight of five toy cars. Test, evaluate and modify your design as needed.

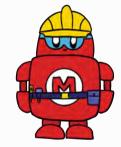


#### Materials:

Cardboard Paper straws Tape

#### Test:

Can it hold the weight of five toy cars? How long is its span? Does it stand on its own?



#### **Communicate:**

Describe your creation. What did you like about your design? What would you do to improve it next time?

# CAMP CHALLENGE BUBBLE WAND

#### **Challenge:**

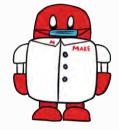
Plan, design and construct a bubble wand using pipe cleaners. Test your design in bubble solution. Modify if required.

#### Materials:

Pipe Cleaners Bubble Solution Tray for Solution

### Test:

Does your wand remain intact when blowing bubbles? Can you make bubbles consistently?



#### **Communicate:**

Describe your creation. What did you like about your design? What would you do to improve it next time?

### CAMP CHALLENGE MOVING TOY

#### **Challenge:**

Plan, design and build a toy. Your toy must be able to move. Test and modify your design throughout the build.



#### Materials:

Cardboard Masking tape Recycled junk

#### Test:

Is your toy able to move? Does it move the way you planned? Is the movement smooth and reliable?

#### **Communicate:**

Describe your creation. What did you like about your design? What would you do to improve it next time?

# CAMP CHALLENGE Build a boat

#### **Challenge:**

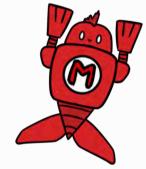
Plan, design and construct a boat using recyclable materials. Test and modify your design throughout the build.

#### Materials:

Tape Recycled items like plastic bottles, cardboard, etc.

### Test:

Does your boat floats? For how long? Can it carry cargo? If so, how much weight can it carry?



#### **Communicate:**

Describe your creation. What did you like about your design? What would you do to improve it next time?

### CAMP CHALLENGE MARSHMALLOW STRUCTURES

#### **Challenge:**

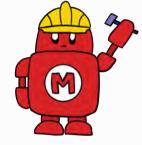
Plan, design and construct a famous building using marshmallows and toothpicks. Your structure must be able to stand freely.

#### Materials:

Marshmallows Toothpicks Cardboard base

### Test:

Does your design resemble the structure you modeled it from? Was it freestanding?



#### Communicate:

Describe your creation. What did you like about your design? What would you do to improve it next time?

### CAMP CHALLENGE BLOCK CASTLES

#### **Challenge:**

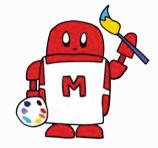
Plan, design and build a castle using blocks. Consider the different features of the castle. Test and modify your design throughout the build.

#### Materials:

Wooden blocks Legos

#### Test:

Did your design reflect your plan? Can you add additional features like tower or moat?



#### **Communicate:**

Describe your creation. What did you like about your design? What would you do to improve it next time?