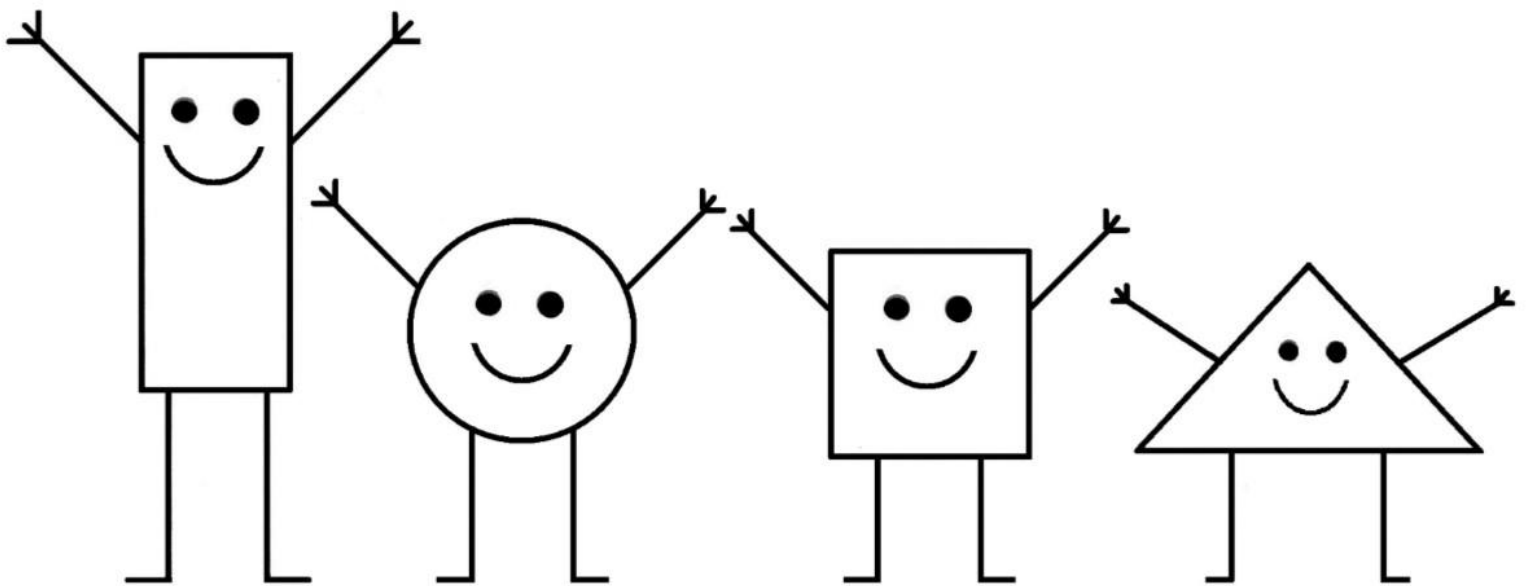


# The Elementary Woodshop

## Applied Design, Skills and Technologies

### Interactive Workbook

# MAKER BLOCKS



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Recommended for K-1

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The Elementary Woodshop™

Small parts for the woodwork project may be choking hazards.  
Supervision is to be used with young children.

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# APPLIED DESIGN, SKILLS AND TECHNOLOGIES

## Teacher's Introduction

This instructional unit has been designed by a High School Technology Education Teacher to introduce Kindergarten and Grade 1 students to Applied Design, Skills and Technologies (ADST) through wooden Maker Blocks. These blocks may be considered choking hazards; supervision is required for young children.

Maker Blocks provide an opportunity for hands-on learning as promoted in BC's curriculum "Building Student Success". Simple activities are presented in this unit. Students are encouraged to develop design skills through building with blocks.

Using Maker Blocks addresses the following Curricular Competencies which students are expected to be able to do in Kindergarten and Grade 1:

- ✓ Ideating
- ✓ Making
- ✓ Sharing
- ✓ Develop skills and add new ones through play and work
- ✓ Use materials in a safe manner

A 1" grid is included to photocopy for layout purposes.

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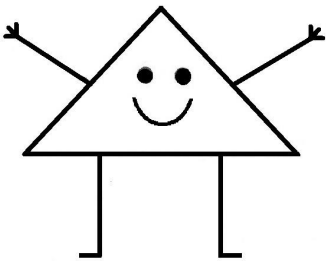
# MAKER BLOCKS

## Math - Shapes



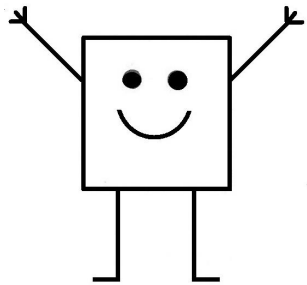
I am a circle

Name some things that are circles  
(example – the sun)



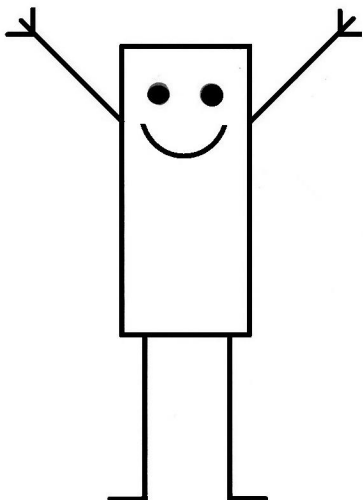
I am a triangle

Name some things that are triangles  
(example – tortilla chip)



I am a square

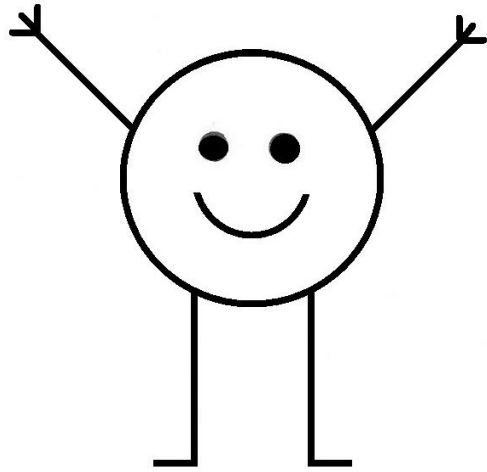
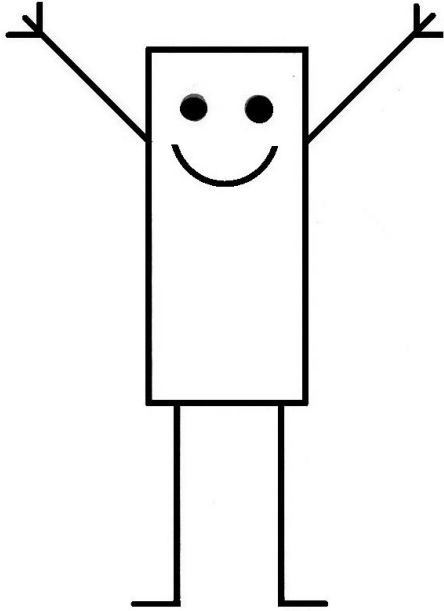
Name some things that are squares  
(example – dice)



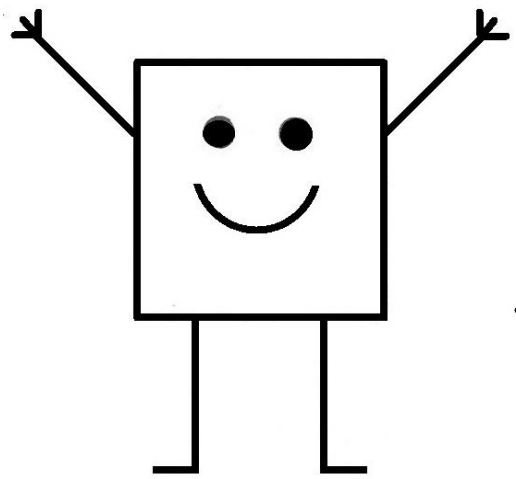
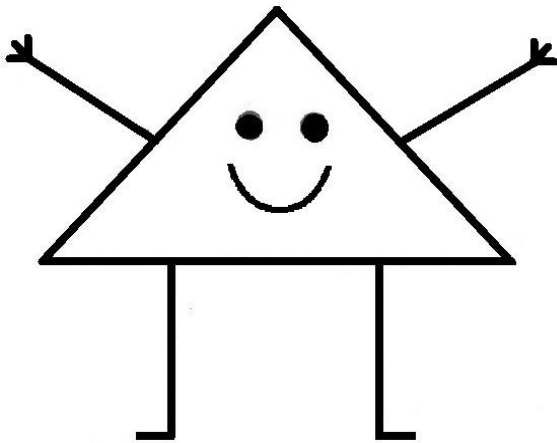
I am a rectangle

Name some things that are rectangles  
(example - ruler)

# MAKER BLOCKS



Have students select a character to draw on a blank piece of paper. Suggested design themes are super hero, family member, sports figure, worker.



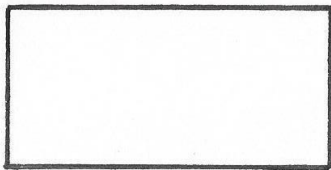
# MAKER BLOCKS

Ask students to draw each 2D shape on a blank piece of paper.

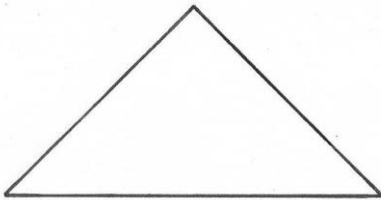
## Two Dimensional (2-D)



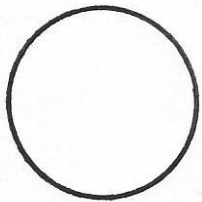
Square



Rectangle

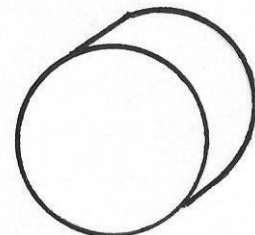
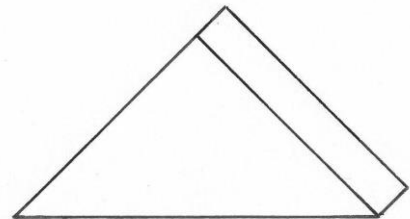
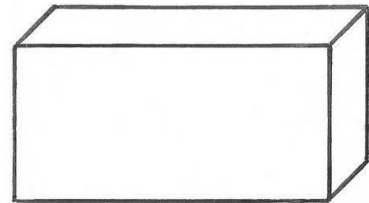
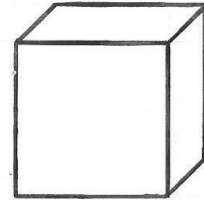


Triangle



Circle

## Three Dimensional (3-D)

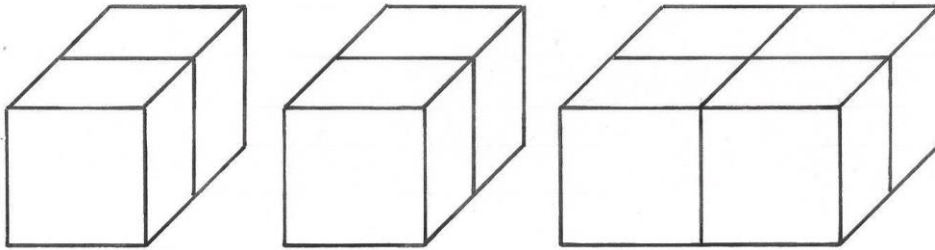


# MAKER BLOCKS

Math

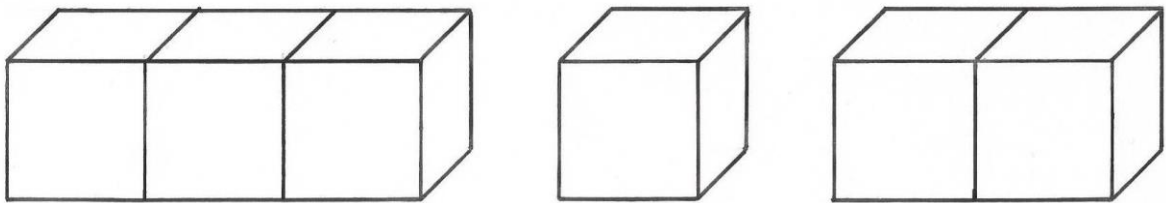
Addition

$$2 + 2 = 4$$



Subtraction

$$3 - 1 = 2$$



Using square maker blocks have students do these sample math exercises:

ADDITION

$$1 + 2 = 3$$

$$3 + 1 = 4$$

$$2 + 4 = 6$$

SUBTRACTION

$$5 - 2 = 3$$

$$4 - 1 = 3$$

$$2 - 2 = 0$$

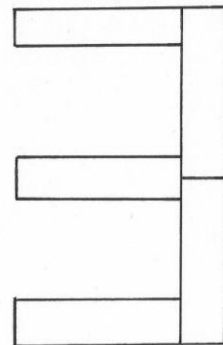
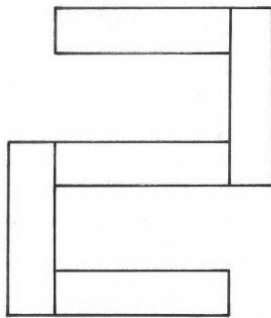
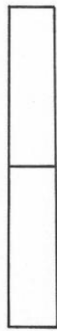


# MAKER BLOCKS

Design

Numbers

Using rectangular maker blocks have students create these numbers:

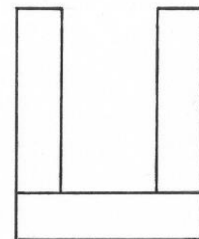
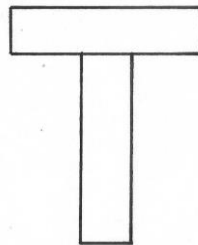
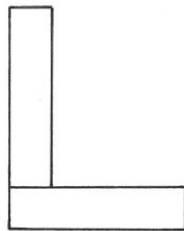
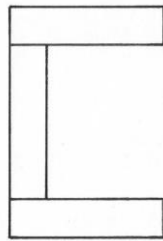
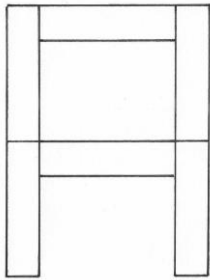


# MAKER BLOCKS

Design

Letters

Using rectangular maker blocks have students create these letters. Ask students to design their own initials.



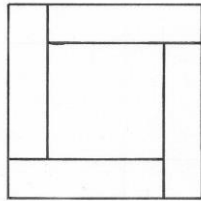
# MAKER BLOCKS

Design

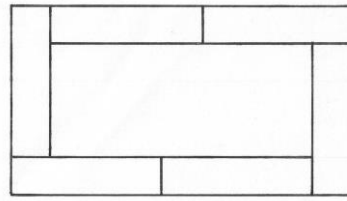
Shapes

Using rectangular maker blocks have students create these shapes:

Square

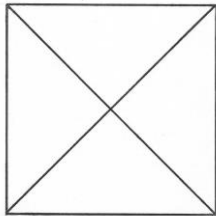


Rectangle

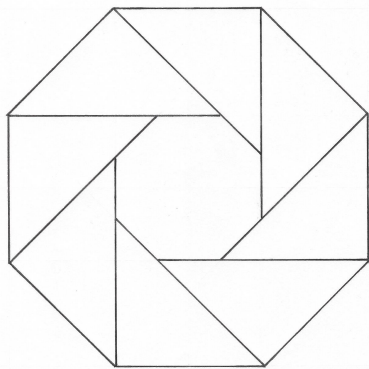
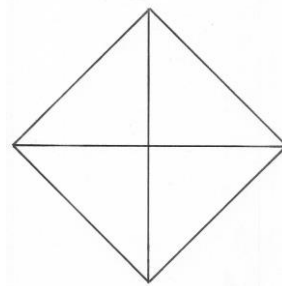


Using triangular maker blocks have students create these shapes:

Square



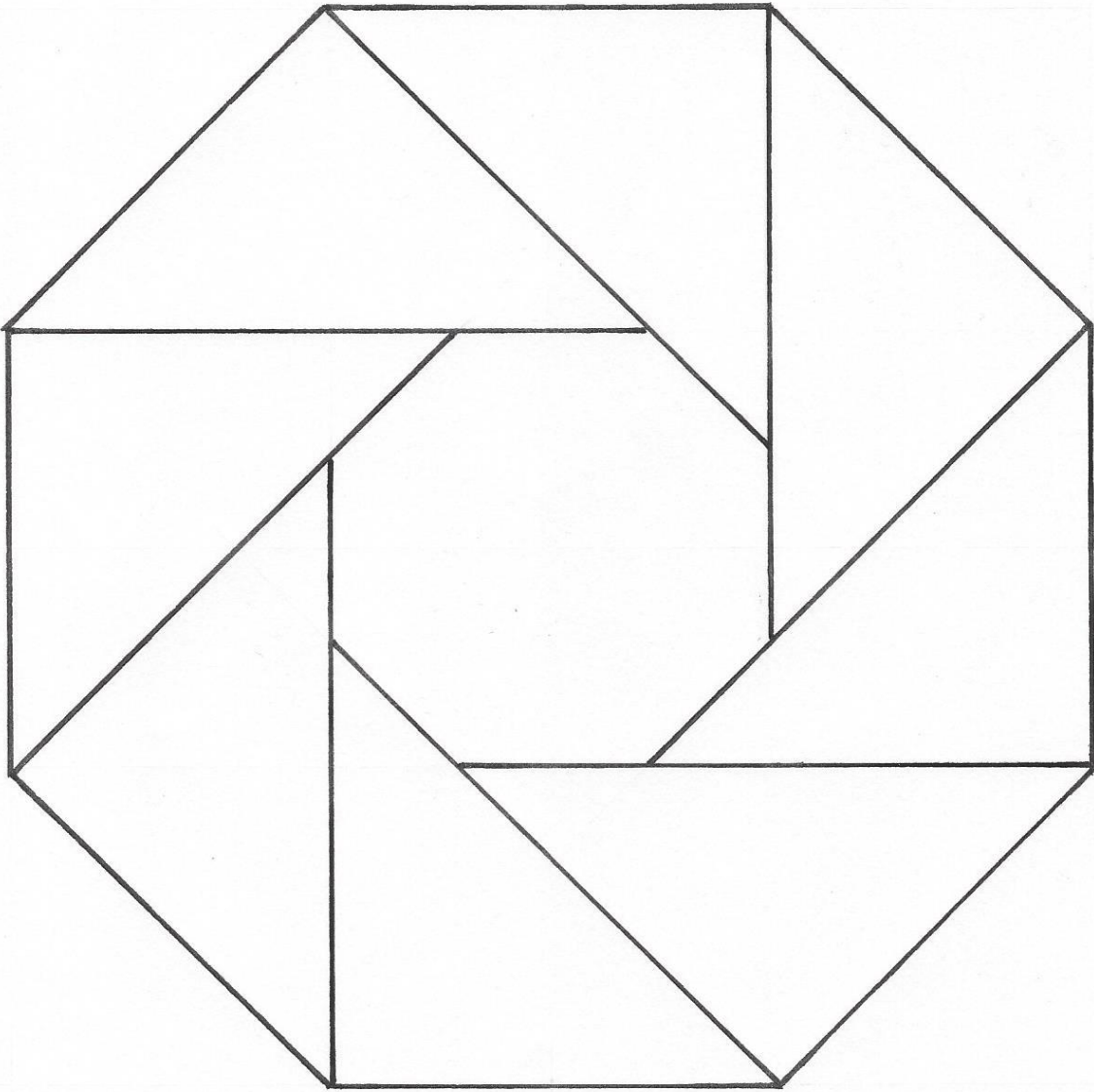
Diamond



Octagon

*\*Note to Teacher  
See octagon template for placement  
of triangles on next page*

MAKER BLOCKS



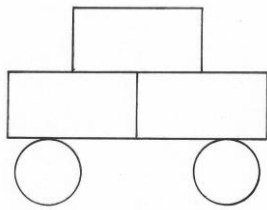
# MAKER BLOCKS

## Design

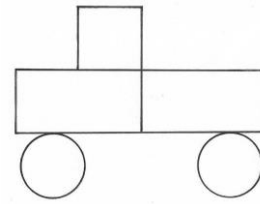
### Two Dimensional (2D) Objects

Using all maker blocks have students create these 2D objects:

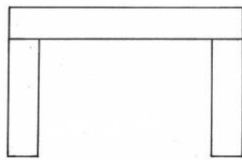
Car



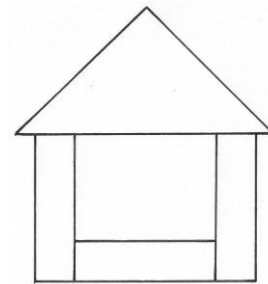
Truck



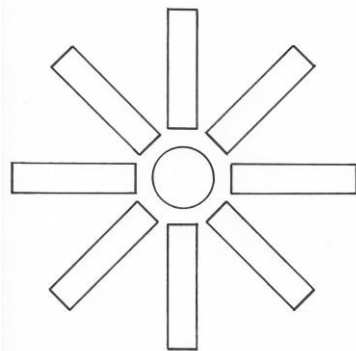
Table



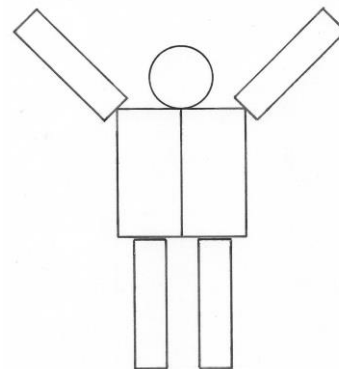
House



Sun



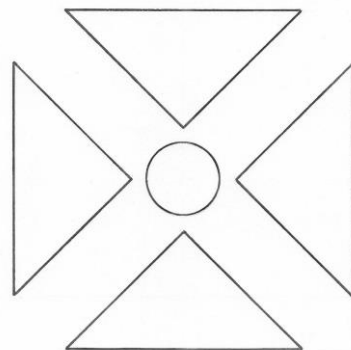
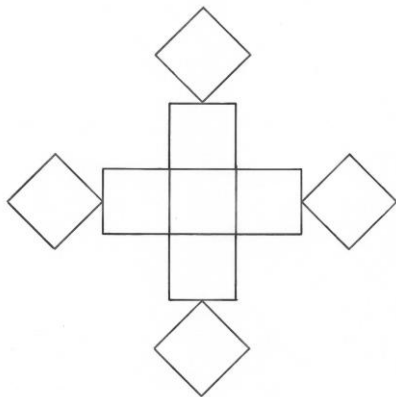
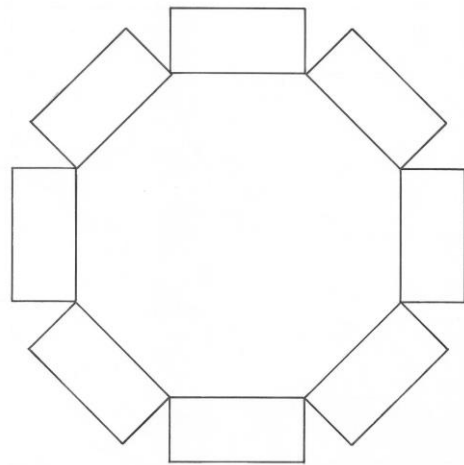
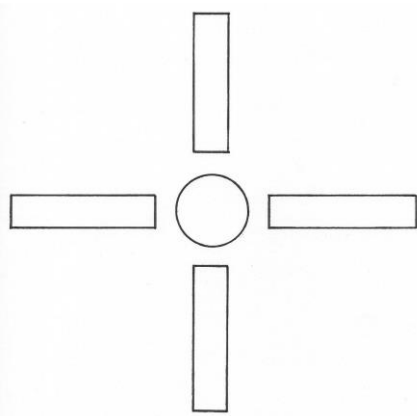
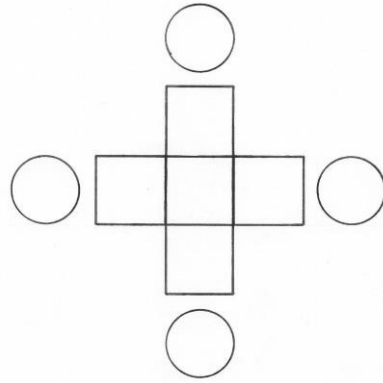
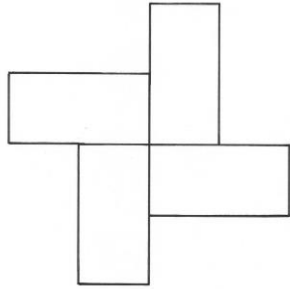
Person



# MAKER BLOCKS

## Freestyle Design

Have students create the following designs. Ask students to create their own designs.



# MAKER BLOCKS

## Design

### Three Dimensional (3D) Objects

Using all maker blocks have students create these 3D objects. Ask students to create their own 3D objects:

Couch

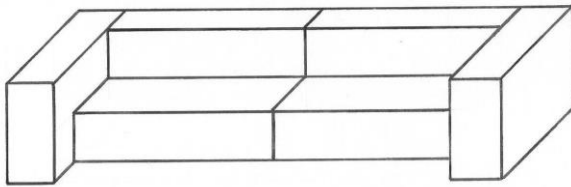
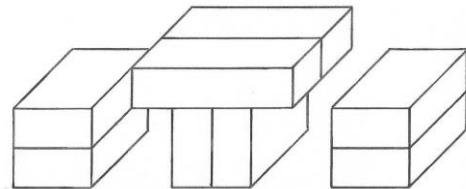
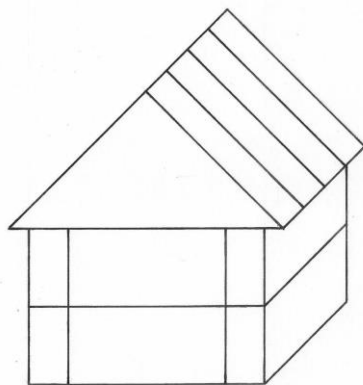


Table and Benches



House



Castle

