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XO, Malia (Founder)

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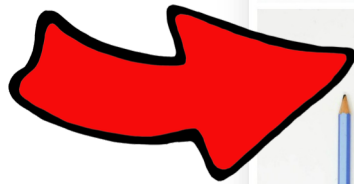


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# BUILDING CHALLENGES

## SKILL-

Designing, building, abstract thinking, trial and error, estimating, counting and more.

## PREP-

Print the challenge cards and cut along the faint grey lines to separate the pieces.

If you'll be using the cards in a classroom, you may want to laminate for reuse.

Grab building supplies (100 LEGOS, wooden blocks, unifix cubes, or sugar cubes)

Optional: Punch a hole in the upper left hand corner of each card and hook them together with a binder ring.

Optional: If your students are ready for an extra challenge, print enough planning pages for each child to complete one while she builds.

## NOTE-

There are two versions of planning pages so that you can easily stretch the activity for kids who are ready for a challenge or break down the activity for students who need extra support.

One version has kids estimate the number of blocks they need to build the challenge and then count the blocks when they're finished. The other version has students spend more time in the planning and follow up phases.

## PLAY-

Children pick up one card at a time and use the building materials to complete the challenge.

Optional: Prior to building their structure, kids complete the planning page to practice design and sequencing skills.

Name \_\_\_\_\_

# BUILDING CHALLENGES

Estimate how many blocks you will use to build each object. Then count the actual number of blocks you used when you are finished. Was your guess close?

<b>A</b>	
ESTIMATE	ACTUAL
<b>C</b>	
ESTIMATE	ACTUAL
<b>E</b>	
ESTIMATE	ACTUAL
<b>G</b>	
ESTIMATE	ACTUAL
<b>I</b>	
ESTIMATE	ACTUAL

<b>B</b>	
ESTIMATE	ACTUAL
<b>D</b>	
ESTIMATE	ACTUAL
<b>F</b>	
ESTIMATE	ACTUAL
<b>H</b>	
ESTIMATE	ACTUAL
<b>J</b>	
ESTIMATE	ACTUAL

Name \_\_\_\_\_

# BUILDING CHALLENGE

Pick a card from the stack. Design a plan below and then build it! When you're finished, describe your process.

BEFORE

What are you building?

---

Draw your design:

What supplies do you need?

---

---

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AFTER

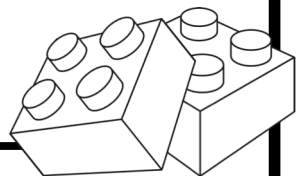
What worked well?

---

What did not work well? How did you fix it?

---

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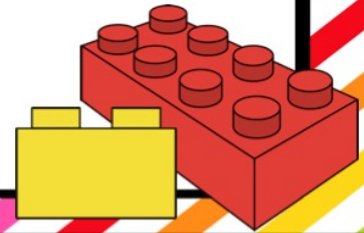
# Building Challenges



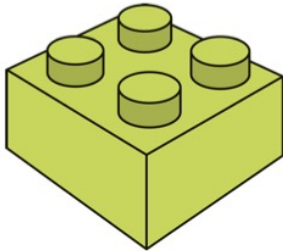
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A

Build something with bricks in just one minute.



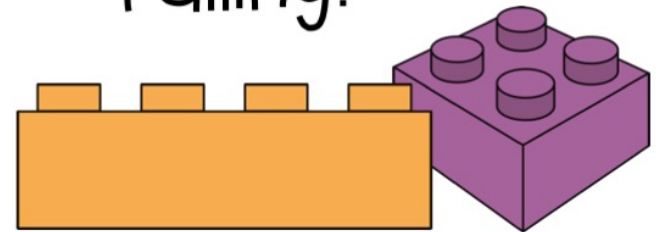
B



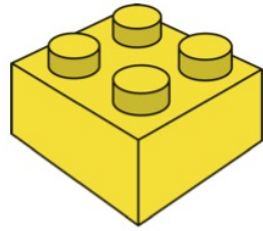
Create a musical instrument that makes sound.

C

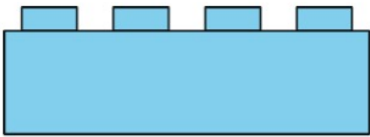
Build the tallest tower you can without it falling.



D



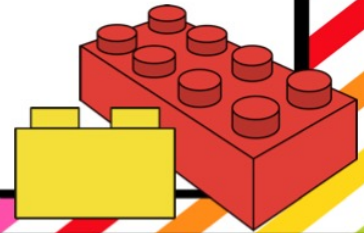
Make a miniature model of your house.



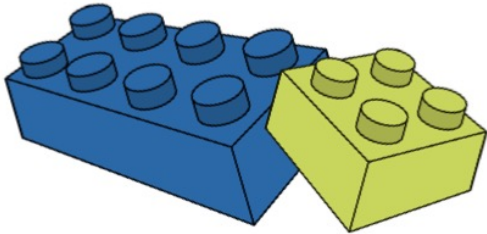
E

Build a tic-tac-toe board and then play a game with it.

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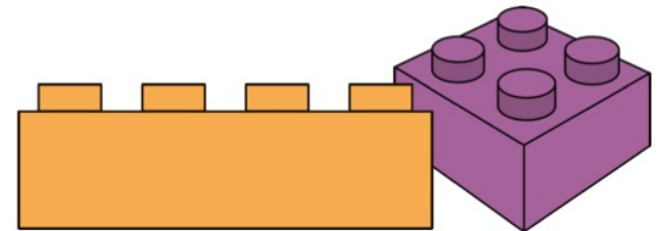
F



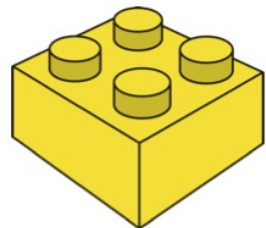
Make a marble maze and challenge a friend to solve it.

G

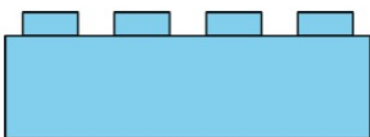
Build something while you are blindfolded.



H

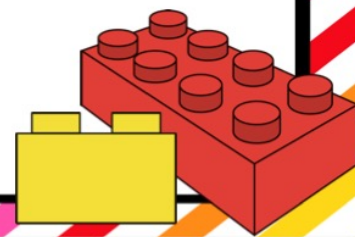


Make an igloo.



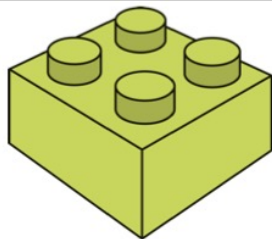
I

Build a brick pyramid.



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J



Make a boat that really floats in water.

