



# STEM LEGO CHALLENGE

**Cut out each LEGO challenge card, and see which creations you can make.**

## **LEGO CHALLENGE**

BUILD SOMETHING  
WITH MOVING  
PARTS.

## **LEGO CHALLENGE**

BUILD YOUR NAME  
WITH YOUR LEGO  
BRICKS.

## **LEGO CHALLENGE**

MAKE SOMETHING  
WITH 7 BLUE, 7  
RED & 7 YELLOW  
LEGO BRICKS.

## **LEGO CHALLENGE**

CREATE A LEGO  
ANIMAL THAT'S  
BIGGER THAN YOUR  
HAND.

## **LEGO CHALLENGE**

MAKE SOMETHING  
USING ONLY RED  
LEGO BRICKS.

## **LEGO CHALLENGE**

BUILD SOMETHING  
WITH 50 LEGO  
BRICKS.

## **LEGO CHALLENGE**

BUILD A HOUSE  
WITH 25 BRICKS.

## **LEGO CHALLENGE**

BUILD SOMETHING  
WITH A PATTERN.

## **LEGO CHALLENGE**

BUILD 2  
RACECARS THAT  
CAN RACE  
ACROSS A TABLE.

## **LEGO CHALLENGE**

BUILD A PICTURE  
THAT IS FLAT AND  
ONLY 2 BRICKS  
HIGH.

## **LEGO CHALLENGE**

MAKE A LEGO  
CREATION THAT  
CAN BE USED AS A  
TOOL.

## **LEGO CHALLENGE**

USE 100 LEGO  
BRICKS TO CREATE  
SOMETHING NEW.

## **LEGO CHALLENGE**

BUILD THE TALLEST  
TOWER THAT CAN  
STAND ON ITS OWN.

## **LEGO CHALLENGE**

BUILD SOMETHING  
WITH ONLY  
YELLOW & BLUE  
LEGO BRICKS.

## **LEGO CHALLENGE**

MAKE SOMETHING  
WITH AN ODD  
NUMBER OF LEGO  
BRICKS.

## **LEGO CHALLENGE**

BUILD SOMETHING  
USING ONLY  
SQUARE LEGO  
BRICKS.

## **LEGO CHALLENGE**

MAKE SOMETHING  
THAT CAN FLY.

## **LEGO CHALLENGE**

BUILD SOMETHING  
WITH THE SAME  
NUMBER OF LEGO  
BRICKS AS YOUR  
AGE.

## **LEGO CHALLENGE**

BUILD A PYRAMID  
WITH ONE COLOR  
FOR EACH LEVEL.

## **LEGO CHALLENGE**

MAKE A SEE-SAW  
YOUR LEGO  
FRIENDS CAN PLAY  
ON.

## **LEGO CHALLENGE**

CREATE THE  
NEWEST MACHINE.  
WHAT DOES IT  
DO?

## **LEGO CHALLENGE**

BUILD SOMETHING  
WITH 3 DIFFERENT  
COLORS & 31 BRICKS.  
1 COLOR SHOULD  
HAVE AN ODD NUMBER  
& THE REST EVEN.

## **LEGO CHALLENGE**

CREATE SOMETHING  
THAT IS HEAVY, AND  
ANOTHER VERSION  
THAT IS LIGHT.

## **LEGO CHALLENGE**

BUILD A SET OF 9  
STAIRS.

## **LEGO CHALLENGE**

CREATE A NEW  
GAME YOU CAN  
PLAY WITH LEGO  
BRICKS.

## **LEGO CHALLENGE**

MAKE A  
LANDSCAPE WHERE  
ANIMALS CAN  
LIVE.

## **LEGO CHALLENGE**

BUILD A  
PLAYGROUND  
YOUR LEGO KIDS  
CAN PLAY ON.

## **LEGO CHALLENGE**

MAKE A GARDEN  
WITH FLOWERS,  
VEGGIES, &  
PLANTS.

**LEGO  
CHALLENGE**

**LEGO  
CHALLENGE**

**LEGO  
CHALLENGE**

**LEGO  
CHALLENGE**

**LEGO  
CHALLENGE**

**LEGO  
CHALLENGE**

# STEM Steps To Success



## OBSERVE/ ASK

- What is the problem?
- How have others solved the problem?
- What are the limitations/guidelines?
- Who can help me solve this problem?



## COLLECT

- What information will I need to solve this problem?
- What resources do I have/need to solve this problem?



## IMAGINE

- How can I solve the problem?
- Have I found an "out of the box" solution?
- Do I have more than one solution?



## PLAN

- What materials do I have/need?
- What steps will I take to solve the problem?
- What could go wrong?



## CREATE

- I will test my plan!
- I will take notes of my process/observations!
- I will draw/take pictures as I work, for reference later!



## IMPROVE

- I will reflect on my design.
- What changes can I make to improve my plan/solution?
- What does my data tell me about my first attempt?
- I create another plan and retest!