



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.

A square card with a white center and a colorful border. The border is composed of overlapping circles and triangles in shades of green, yellow, blue, and purple. The text "LEGO CHALLENGE" is centered in the white area.

**LEGO
CHALLENGE**

A square card with a white center and a colorful border. The border is composed of overlapping circles and triangles in shades of purple, red, orange, and yellow. The text "LEGO CHALLENGE" is centered in the white area.

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CHALLENGE**

A square card with a white center and a colorful border. The border is composed of overlapping circles and triangles in shades of purple, green, and orange. The text "LEGO CHALLENGE" is centered in the white area.

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**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?



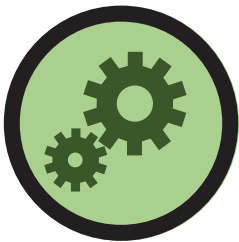
COLLECT

- 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?



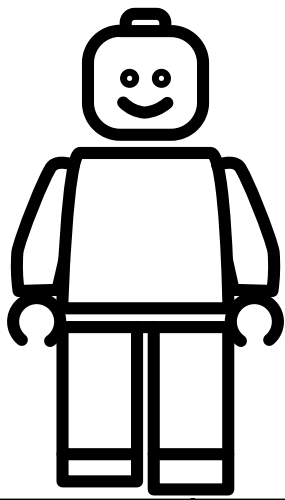
CREATE

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

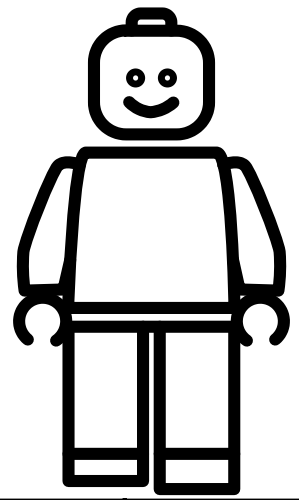


IMPROVE

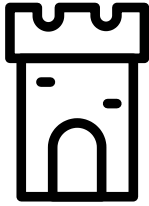
- I will reflect on my design.
- What changes can I make to improve my plan/solution?
- What does my data tell me about my first attempt?
- I create another plan and retest!



LEGO BINGO

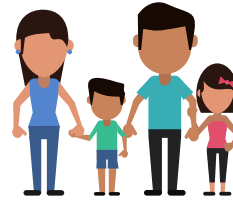


ROCKETSHIP



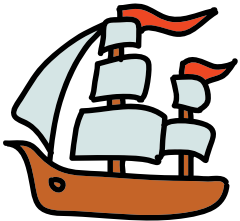
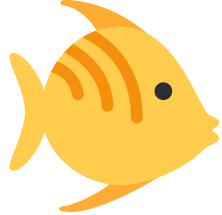
TALL TOWER

DINOSAUR



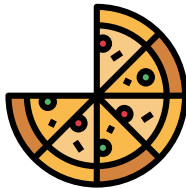
YOUR FAMILY

FISH



PIRATE SHIP

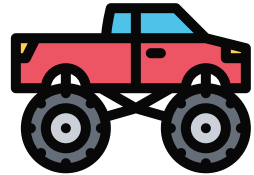
FAVORITE FOOD



PYRAMID

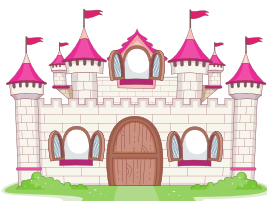


AIRPLANE



MONSTER TRUCK

FAVORITE ANIMAL



CASTLE

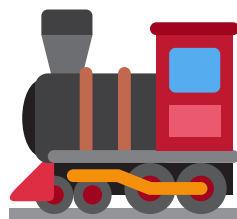
FREE

ROLLER COASTER



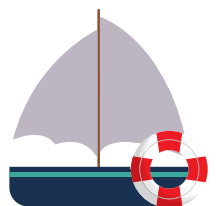
SCHOOL

DRAGON

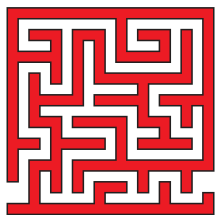


TRAIN

HOUSE



BOAT



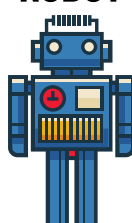
MAZE

RACECAR



ZOO

ROBOT



SOMETHING YOU CAN WEAR

HORSE

