



MAKERSPACE LEGO CHALLENGE



- 20 Design-Inspiring Task Cards
- Prepare to Share Questions

Elementary
Grades

Created by Jolene Ray

Plan and build something that represents you.

Use at least 25 Lego bricks

Prepare to share:

Why did you choose this design?

How is this design representative of you?

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CHALLENGE

I

Plan and create a unique flag design.

Prepare to share:
What inspired your flag design?
What does this flag represent?

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CHALLENGE
2

**Plan and build
something that
you would like to
see invented in the
future.**

Use at least 25 Lego bricks

Prepare to share:

How would your invention be used?

What would you call this invention?

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CHALLENGE**

3

**Plan and build a
symmetrical
design using at
least 40 Lego
bricks.**

Prepare to share:

What inspired your design?

What process did you use to build it?

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CHALLENGE**

4

Create a floor-plan model of your bedroom.

Don't forget to include closets, doorways, and furniture

Prepare to share:

What were some of the challenges with this task?

How did you overcome these challenges?

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5

Create a nature scene for your favorite season.

Use at least 50 Lego bricks

Prepare to share:

How is your design unique for this season?

How did you decide on the colors you would use?

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6

**Use Lego bricks to
represent a
character from a
book you have
read.**

Prepare to share:

Why did you choose this character?

How would you describe this character?

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CHALLENGE**

7

**Use red, white,
and blue bricks to
create something
patriotic.**

Prepare to share:

Why did you choose this design?

What are some other ways we can show our patriotism?

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CHALLENGE**

8

Create something
that represents
your favorite
holiday.

Use at least 20 Lego bricks

Prepare to share:

Why is this your favorite holiday?

How did you decide upon this design?

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CHALLENGE
q

Create something
that represents
one of your
favorite movies.

Prepare to share?

How would you summarize this movie?

Who was your favorite character in this movie and why?

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CHALLENGE
10

Design your own unique pre- historic creature.

Prepare to share:

What would you name your creature?

What are some unique characteristics of this creature?

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CHALLENGE
II

Create a unique design displaying your first or last name.

Use at least 50 Lego bricks to make your design unique

Prepare to share:

Why did you choose these colors?

What steps did you take in creating this design?

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CHALLENGE
12

**Design or
represent an
computer icon
using Lego bricks.**

Prepare to share:
What does this icon represent?
What inspired this design?

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CHALLENGE
13**

Create a logo for your future business.

Prepare to share:
What will your future business be?
Why did you choose this design?

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CHALLENGE
14

**Plan and build a
structure you
might find in an
amusement park.**

Prepare to share:

Why did you choose this design?

Might you find this structure anywhere else?

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15**

Make a Lego marble maze.

Prepare to share:

How long does it take a marble to go through your maze?

How does this design affect the marble run time?

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16

Create props for a short puppet show.

Prepare to share:

Write a script that includes all of your props.
With a friend or by yourself, put on a puppet show for
your class.

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17

**Using at least 50
Lego bricks,
create something
useful.**

Prepare to share:
How can this be used?
How does this creation make life easier.

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CHALLENGE
18**

**Choose and build a
design from an
online source or
from a Lego
design book.**

Prepare to share:

Why did you choose this design?

What were the challenges with building this design?

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CHALLENGE
19**

**Double-size a
design from an
online source or
Lego design book.**

Prepare to share:

What process did you use to double-size this design?

Why did you choose this design?



Teaching
Blog



Contact me at : tptjolene@gmail.com

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