

CHALLENGE #1: "KID CITY"

TEACHER
INSTRUCTIONS

TEACHER PLANNING

Approximate Time: 40-60 minutes + Extra if time is available and students are engaged.

Supplies:

- Lego Bricks + Lego wheels
- Bedsheet, mat, or a large piece of cardboard to spread the Legos out on (Optional, but makes for easier clean up)
- Large white paper (Roll paper or sidewalk chalk outside are also great options.)
- Markers or Crayons

QUESTIONS TO INITIATE BRAINSTORMING

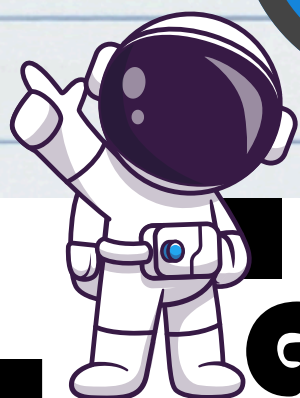
Do we think we should start by building our car first or drawing our roads first? -Building the car first will help determine the size of the roads.

Can we have more than one road? -Yes!

Do all playgrounds look the same? -Of course not! There is no one way to build a playground.

Are we each making our own city? -Nope! One creative group city.

Are we each making our own car? -Teacher choice. If there are enough Legos and Lego wheels for multiple cars per group, then multiple cars is fine.



"KID CITY"

PROJECT CHALLENGE!

FOR KIDS

Can you build a Lego car, no bigger than your shoe?

As a group of 2-3, can you draw a city with roads wide enough to drive the Lego car?

You MUST include:

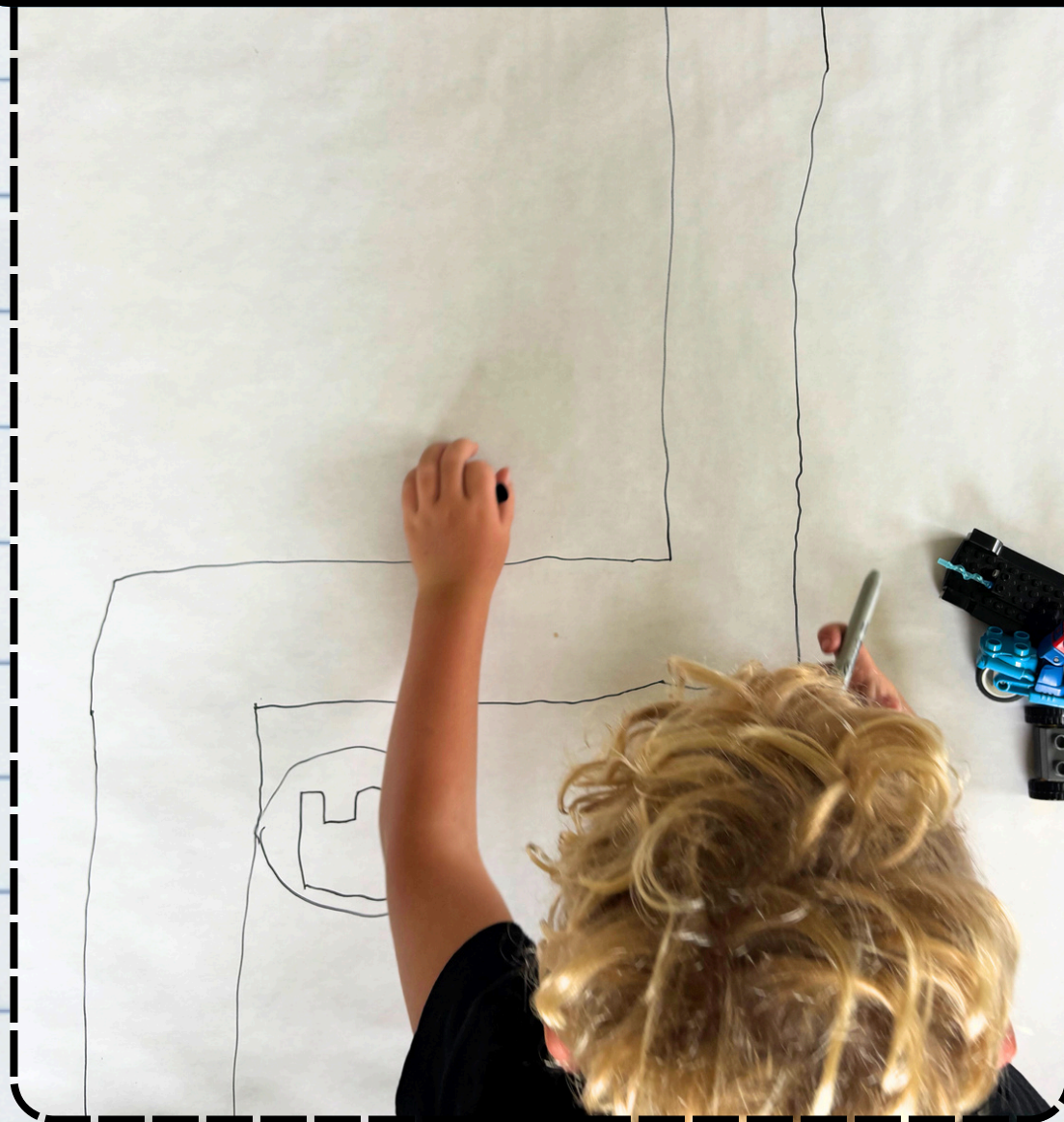
- Road or roads
- A drawing of a playground
- Anything else the GROUP decides would be fun to add!
- You may build one car as a group or each member build their own car

Our Process:

- Brainstorm
- Create
- Reflect
- Re-Create

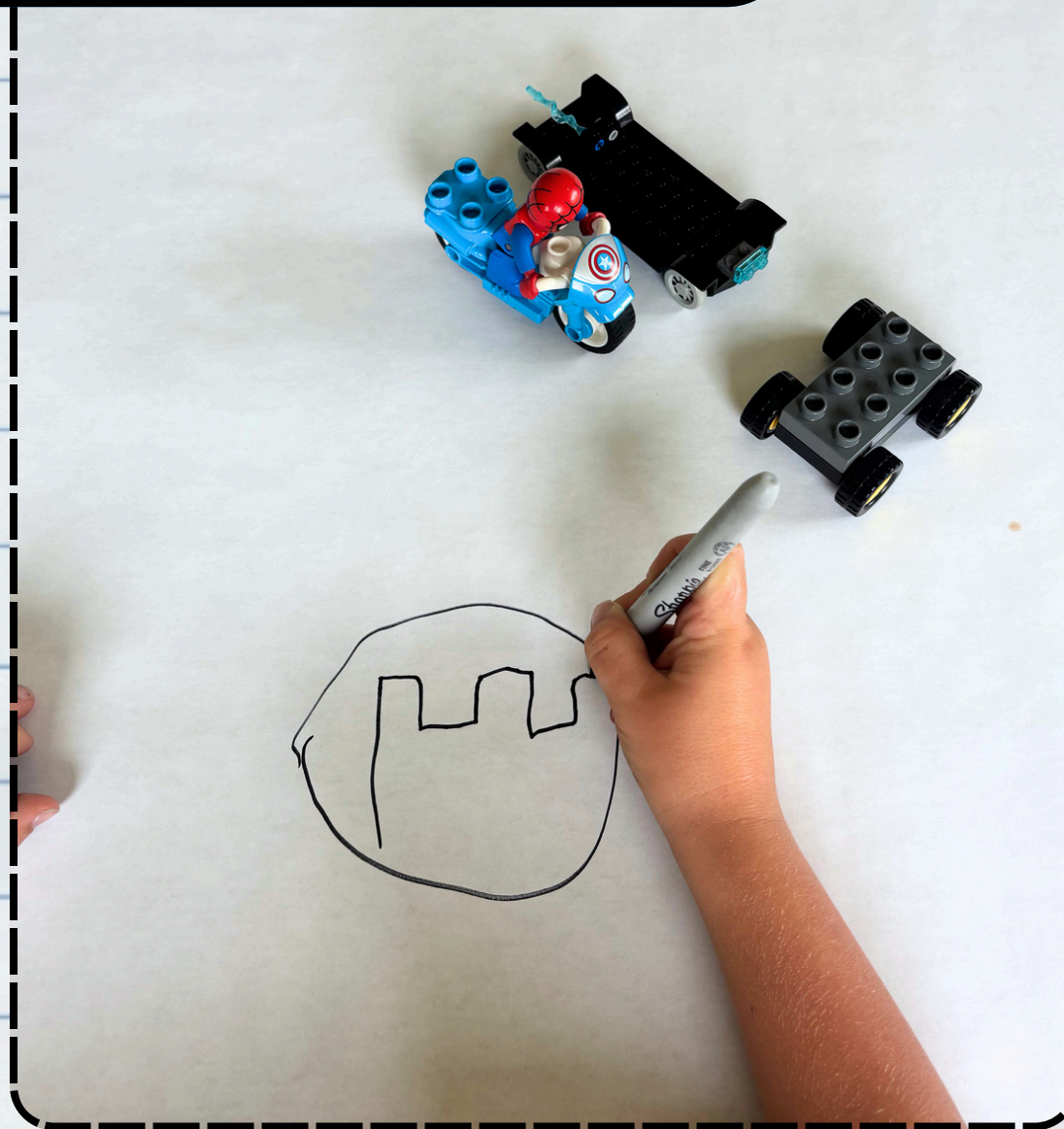
CHALLENGE BROKEN DOWN INTO STEPS:

TEACHER INSTRUCTIONS



We love large roll paper!
Lay it out on the ground
and allow kids to spread
out.

No roll paper? Any size is
fine.

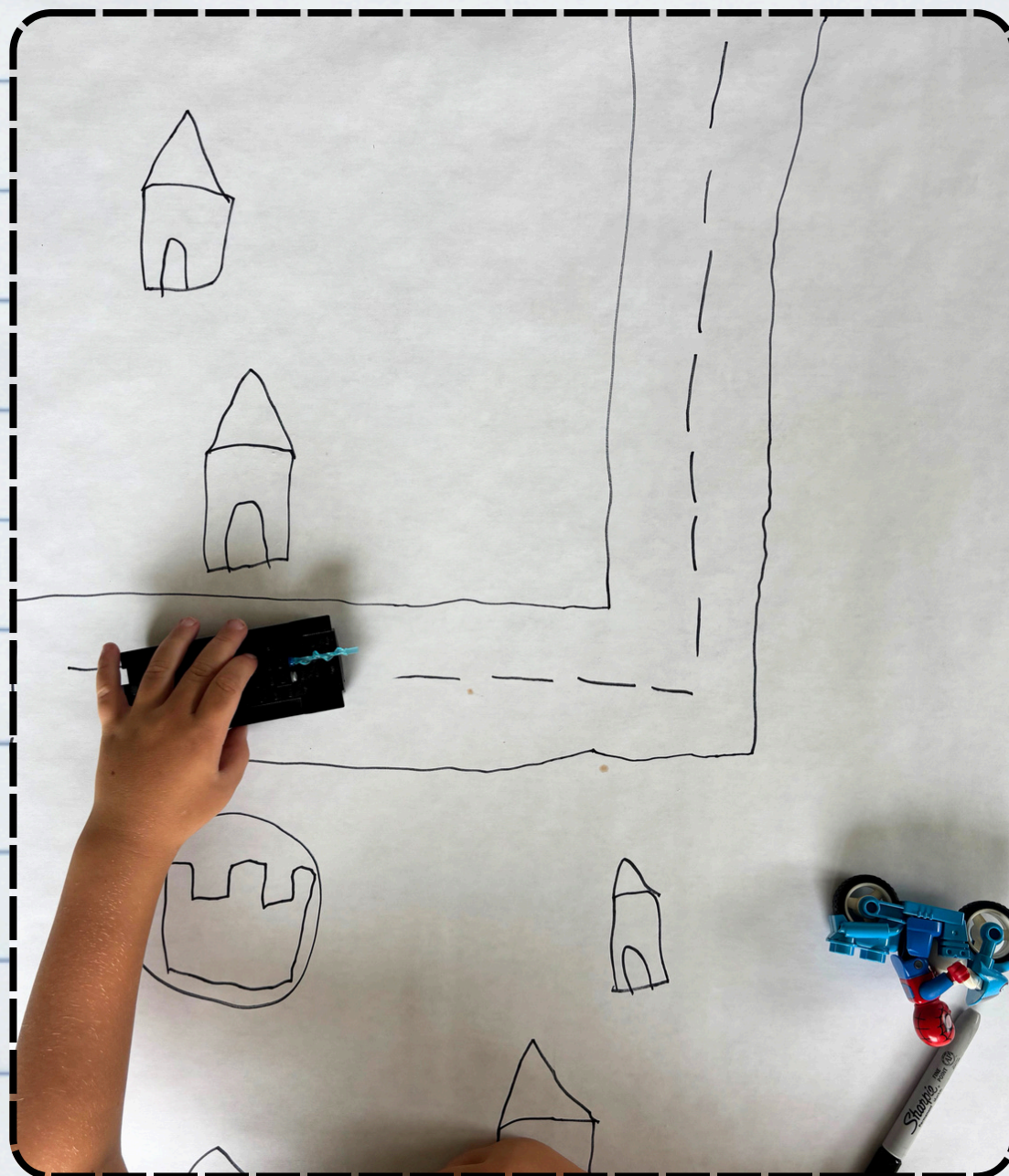


Groups can decide if they want
to build the Lego car(s) first,
complete the drawing first, or
split up the jobs and work on
both simultaneously.

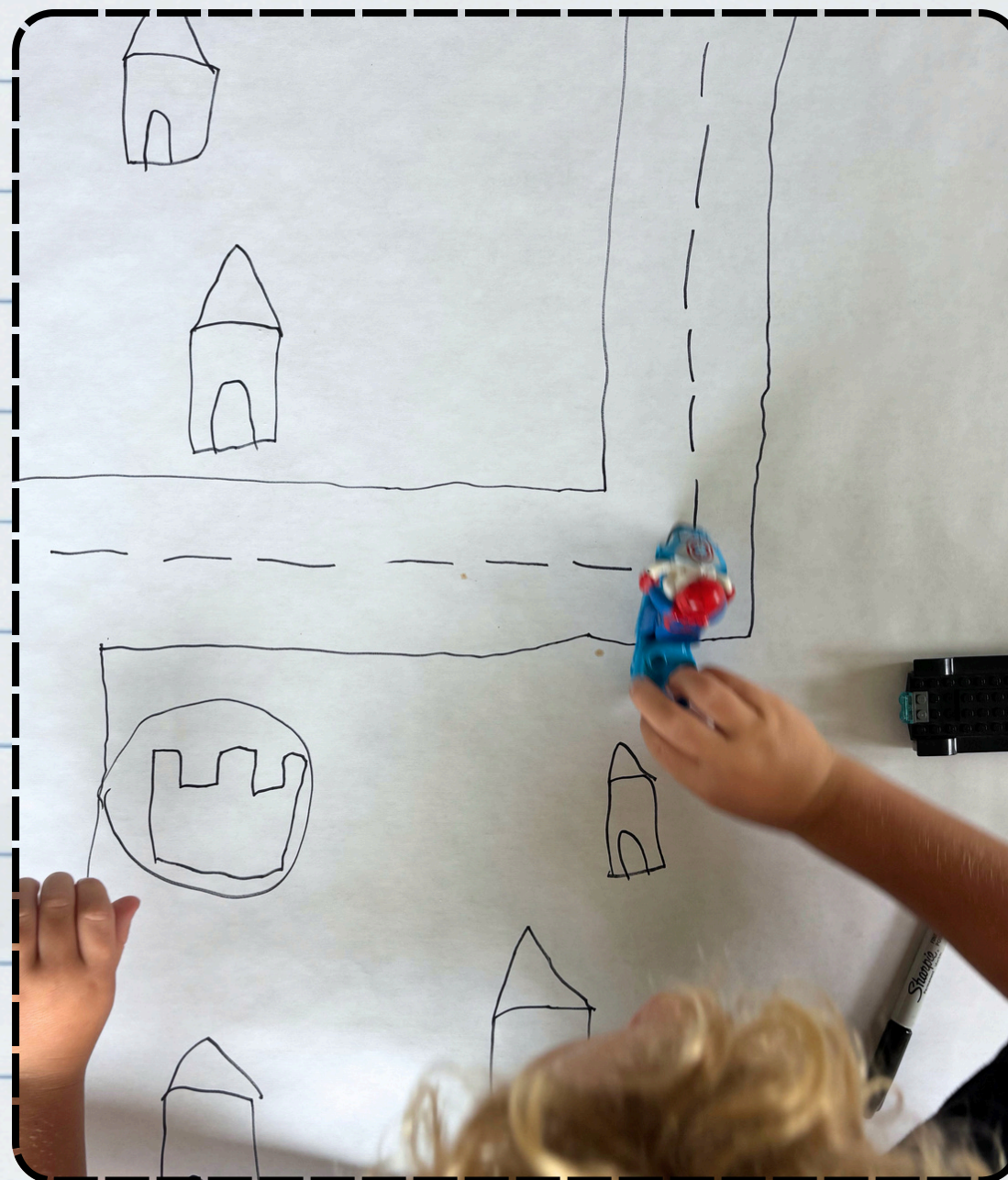
ASK: How will your group
divide the jobs? What will you
do if you disagree?



Students can add
houses, trees, and other
details. Go as detailed
or as simple as time
allows.



Once the drawing is done, students can test their Lego cars.

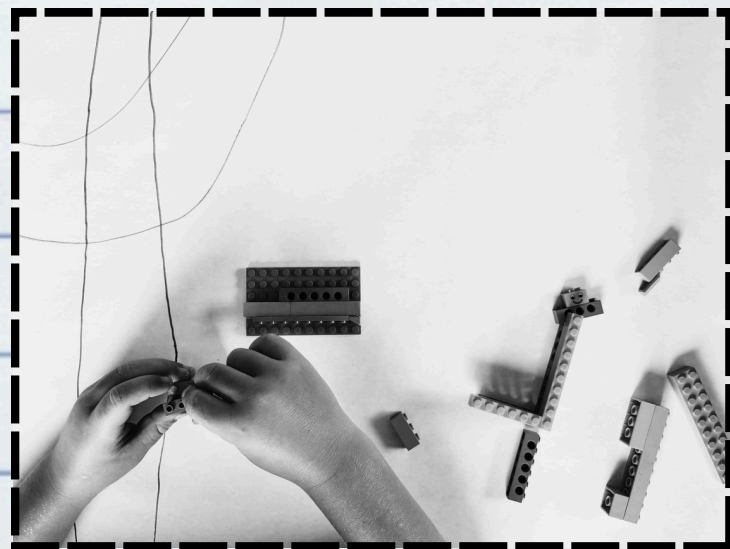


Each group member can test their own car or take turns testing a single group car.

KIDS HAVING TROUBLE?

TEACHER INSTRUCTIONS

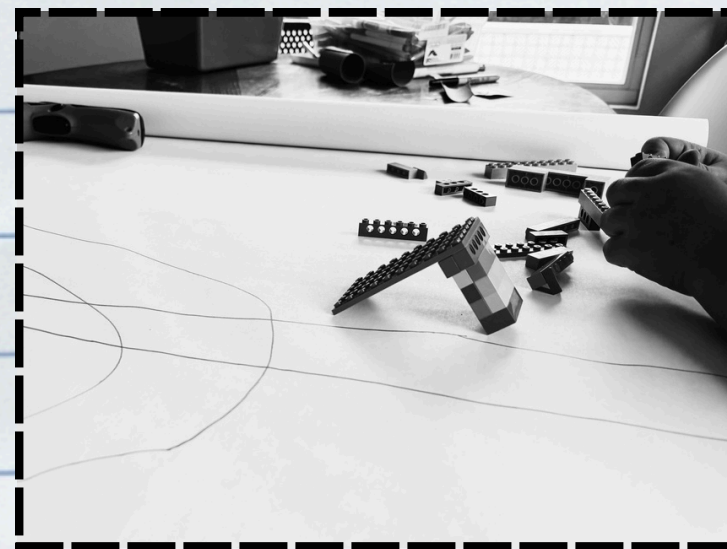
TROUBLE ATTACHING THE WHEELS?



There are several types of Lego wheels. The variety of options can be new and/or tricky for some kids. Identifying a couple students who can be "experts" to help others is a great option.

ASK: Do we have anyone who can be our Lego wheel expert?

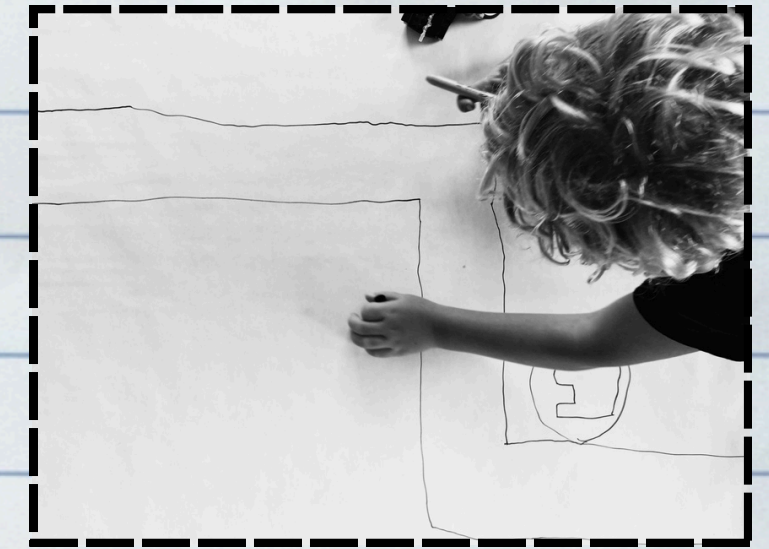
NOT SURE WHERE TO START?



Students may struggle with not drawing their city to the size of their Lego car if they attempt to draw the city before building the car.

ASK: Do you think it would be easier to build the car first or draw the city first?

ROADS TOO SKINNY/TINY?



If students make their road too skinny/tiny, this provides a good discussion for why it is important to follow the parameters. Give students the option to find a fix or start over.