

# Teacher Resources

## Small Group Lego Challenge

### How to Play:

1. Divide students into groups of three or four.
2. Assign roles to group members – a builder, a looker, and a messenger.
3. Give each team a building kit. The pieces in each kit are all the same size, shape, and color.



### Roles for Group Members:

**Builder:** The builder can touch the bricks in the brick kit and build the model. He or she cannot leave their station.

**Looker:** The looker can go and see the LEGO® model. He or she can look as many times as needed. The looker can enter the room where the model is located and go back out, but cannot go to the building station or see the model the team is working on as it's being constructed.

**Messenger:** The messenger can go back and forth from the building station to meet up with the looker. He or she can go back and forth as many times as needed. If the model is out in the hallway, the looker could come into the hallway and go back out to classroom to communicate with the messenger. The messenger could come up to the hallway, but not enter the hallway. Each team has a building station in the classroom.

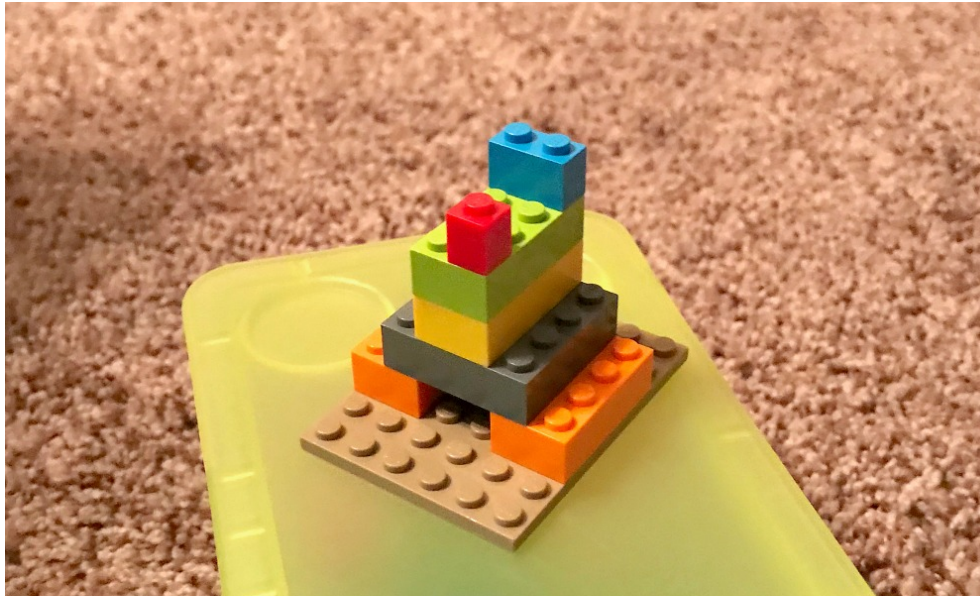
### Ending the Game:

The first team to complete their model will call out that they are finished. At that point, the remaining teams will have 60 seconds to come to a stopping point.

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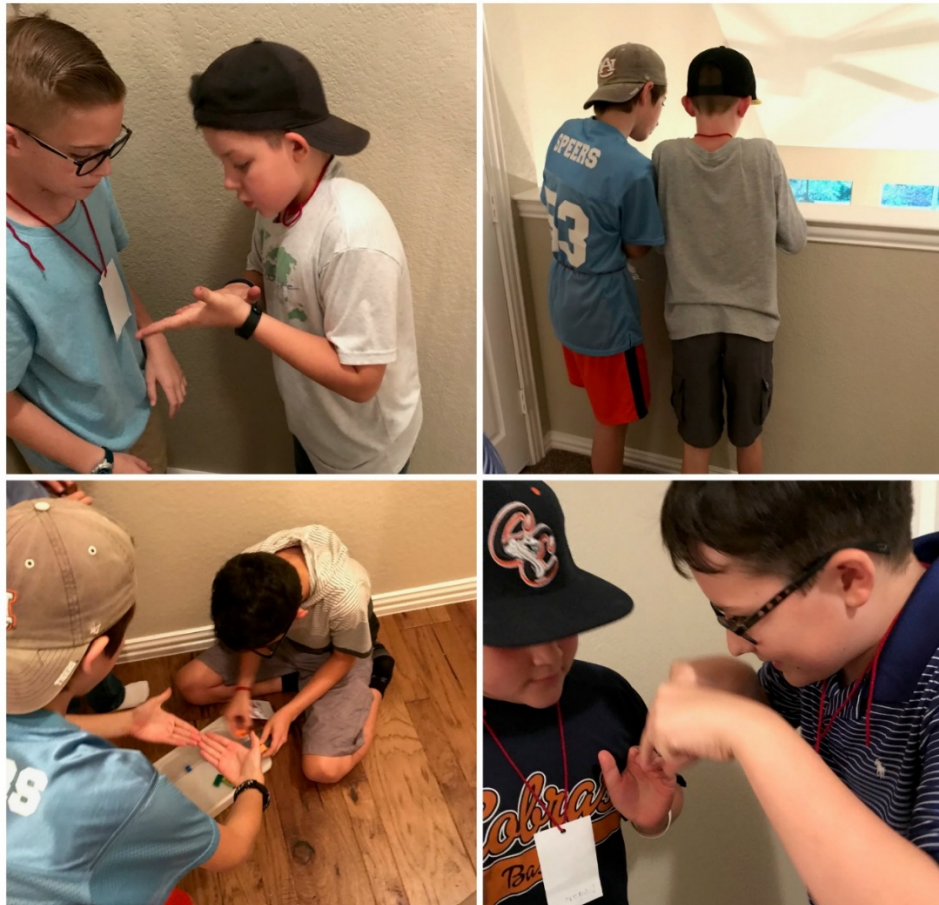
**Example:**

Here's a sample of one of the models. You'll want to keep it simple!



In this example, groups had to figure out how to approach building the model. The most successful groups started at the bottom and explained one layer at a time. Teams had to use specific language – counting the number of studs, observing the exact position of the bricks, etc. They had to figure out how to relay what they had seen in a way that their team members could understand.

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As you can see, one team was very close. The only difference between their sculputre and the model was that they used a dark green brick instead of a lime green brick and they placed their red brick in a slightly different position. Of the other two teams, one team had all the right bricks, but reversed the colors on the bottom two layers. The remaining team lacked a brick but completed the first two layers correctly. The third and fourth layers used the correct bricks but turned them the wrong way.



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