

Dear Parents,

We realize you may already be inundated with online courses and online activity options throughout this quarantine period. Children are spending countless hours completing virtual school assignments and may not have the time to play. However, we feel it is so important for your child to have some creative downtime too - time where they can use their imagination, breathe, and just be a kid.

The team here at Green Mouse Academy is known for providing fun, engaging LEGO activities to students. We want to keep that reminder going and inspire kids to be creative with 12 different LEGO challenges.

What you'll need to get started:

- LEGO. Any LEGO bricks & pieces that you have around your house will work.
- Our Activity Cards, which include short instructions and video links. If possible, print the handouts before activity time. No printer? No problem. You can simply view the links provided in the handouts.
- A storage bin or bucket that can hold water
- A box fan (for car races and sailboats)
- A dowel, stick, or straw
- 2 sheets of paper or cardstock
- Your IMAGINATION!

Join us for these fun activities inspired by the LEGO Librarian and be sure to visit <https://legolibrarian.com/category/lego-club/>.

To learn more about our Technology Arts programs or if you have any questions, please visit us at www.greenmouseacademy.com.

3, 2, 1, LEGO!

3rd - 5th LEGO CLUB Activities

Week 1: Adventures

Activity Card 1

- Mini Figure Adventure Photos [Mini Figure Adventure Photos](#)
- Disaster Island [Disaster Island](#)
- Scavenger Hunt [Scavenger Hunt](#)

Week 2: Racing

Activity Card 2

- Wind Racers [Wind Racers](#)
- Turtle Races [Turtle Races](#)
- Blindfold Challenge [Blindfold Challenge](#)

Week 3: Water and Weights

Activity Card 3

- Boat Races [Boat races](#)
- Weightless Building [Weightless Building](#)
- Cantilevers and Weights [Cantilevers and Weights](#)

Week 4: Building, Building, and More Building

Activity Card 4

- Building on Stilts [Building on Stilts](#)
- Upside Down LEGO Building [Upside Down LEGO](#)
- Rebuild Your Town Challenge [Rebuild Your Town Challenge](#)

Activity Card 1: Adventures (Week 1)

Explore

Welcome to Adventures week! The 3 activities included in this week's tasks are all about using your imagination when going on an adventure.

Create

Activity 1: Mini Figure Adventure Photos

For this activity, all you need is a mini figure (you can use more than one if you'd like) and a camera. The camera can come from your phone, a tablet, or camera. You won't need any other LEGO elements. Take your mini figure on an adventure in your house or outside in your yard. Capture him/her doing something silly, cool, adventurous, scary, etc. See sample photos at this link for more ideas. <https://legolibrarian.com/2020/03/19/lego-challenge-minifig-adventure-photos/>

Activity 2: Disaster Island

For this activity, build a deserted island, then choose a disaster below and come up with a solution. <https://legolibrarian.com/2017/03/11/lego-challenge-disaster-island/>

- A hurricane is coming. Build a strong shelter with a roof!
- Zombie invasion! Find a way to protect yourself!
- Pirates want to steal your stuff! Build something to scare them off!
- A rescue plane is overhead. Find a way to signal to them!

Activity 3: Scavenger Hunt

For this activity, pick a tiny LEGO piece and hide it inside of a model that you build. Send a family member on a scavenger hunt to find the piece within your model. Don't make it easy for them!! <https://legolibrarian.com/2017/06/23/lego-club-challenge-scavenger-hunt/>

Share

Parents ask guiding questions about your child's LEGO creations. Be sure to take pictures and post to social media and tag us at #greenmousecafe on Twitter and #greenmouseacademy on Facebook! Below are a few guiding questions:

1. Can you tell me about your photo of your LEGO Mini figure Adventure?
2. Can you tell me about this LEGO model you built?
3. How did you solve the problem?

Activity Card 2: Racing (Week 2)

Explore

Welcome to Racing week! The 3 activities included in this week's tasks are all about fast cars and slow cars. On your mark. Get set. Go!! See you at the finish line!

Create

Activity 1: Wind Racers

For this activity you will build your own race car, create a "sail" for your car, then place it in front of a box fan and watch it go! You will need a piece of cardstock or paper. Draw anything you want on it. Make two holes in the paper, one at the top and one on the bottom. Then if you have a dowel (or any type of a stick, even a straw), place it in both holes to create a sail. If you need help, check out this link for pictures and inspiration.

<https://legolibrarian.com/2018/03/17/lego-challenge-wind-racers/>

Activity 2: Turtle Races

It is so much fun building fast cars. No one ever thinks to build a slow car! But that is just what this activity is all about. You can build any type of car that you would like, but there are two rules: 1. Your car actually needs to look like a car. 2. Your car has to have two wheels that can move freely on the bottom. Check out this link for ideas:

<https://legolibrarian.com/2019/01/18/lego-club-challenge-slowest-car/>

Activity 3: Blindfold Challenge

Okay so this is not about racing or building a car. Though you could build a car blindfolded! For this activity, find a blindfold or bandana and cover your eyes for 5 minutes. Then build whatever you want with LEGO, while blind. After 5 minutes of "blind building," take your blindfold off and check out how well you did! Check out a few examples here:

<https://legolibrarian.com/2018/05/18/lego-challenge-the-blindfold-challenge/>

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1. Tell me about the wind racer you built? What were some of the challenges?
2. Can you tell me how you felt building a slow car?
3. Was it easy building blindfolded? Did you overcome any obstacles?

Activity Card 3: Water and Weights (Week 3)

Explore

Welcome to Water and Weights week! The 3 activities included in this week's tasks are all about water, weights, and weightless underwater building. If it is nice and sunny out, head outside to complete these 3 activities.

Create

Activity 1: Boat Races

Remember when we raced cars with sail's last week? Well guess what? We are going to start off this first activity with boat racing! You will use the same materials you used for the wind race car. Grab a box fan, a piece of paper or cardstock (cut or punch two holes in the paper-one at the top and one on the bottom), and a dowel, stick or straw. You will also need a storage bin or something large that can hold water for your sailboat. Once you have everything, go ahead, and build your sailboat, place it in the water, turn on the fan, and watch it sail! If you'd like a bit of help or inspiration, check out this link:

<https://legolibrarian.com/2019/07/02/lego-club-challenge-boat-races/>

Activity 2: Weightless Building

Have you ever built with LEGO, under water? In this activity, you will get to do just that! Remember the storage bin you used in Activity 1? Locate it and fill it with water. Not too high though. You do need some room to build and you want to make sure the water does not overflow onto the ground. So, find a bucket of LEGO and try to build anything you would like, under the water. Does it float or does it sink? The only way to find out is by trying it out!

Check out a few pictures here:

<https://legolibrarian.com/2019/08/20/lego-club-challenge-weightless-building/>

Activity 3: Cantilevers and Weights

Think for a moment about diving boards, cranes, and airplane wings. What do they all have in common? You guessed right! Ha! They are all Cantilevers. Wait...what are cantilevers you ask? A cantilever is a structure that is only supported on one end, with the other side free. Your challenge today is to build a super strong cantilever, then find a few things around the house that are heavy and try to place these items on your cantilever. Can you describe what happens? Did you build a strong enough cantilever? If not, how can you make it stronger? If you need help or ideas, head over to this link: <https://legolibrarian.com/2020/02/22/lego-club-challenge-cantilevers-and-weights/>

Share

Parents ask guiding questions about your child's LEGO creations.

1. Can you tell me some of the challenges you faced with your sailboat?
2. What were some of the challenges you experienced when building under water? Was it hard to control the LEGO or did the pieces move around in the bucket of water?
3. Were you able to come up with solutions to the problems you faced?

Activity Card 4: Building, Building, and More Building (Week 4)

Explore

Welcome to Building, Building, and More Building! The 3 activities included in this week's tasks are all about....you guessed it, Building!

Create

Activity 1: Building on Stilts

For this activity, you need to find a way to elevate a baseboard on stilts. Build a building or house on top of a baseplate and then build it up on stilts. Why do you think some houses in different parts of the world, need to be elevated? Check out this link for pictures and ideas: <https://legolibrarian.com/2019/04/05/lego-club-challenge-houses-with-stilts-building-on-the-wrong-side-of-the-board/>

Activity 2: Upside Down LEGO Building

For this activity, you are going to be able to do something you have never done before. You are going to build underneath a table! Parents, using 2 pieces of duct tape, tape a baseplate underneath a table. Once the baseplate is taped up and ready to go, try to build a building upside down! For inspiration, check out this link from the awesome LEGO Librarian! <https://legolibrarian.com/2018/02/16/lego-challenge-upside-down-legos/>

Activity 3: Rebuild Your Town Challenge

For this activity, you will rebuild your town. I know it is a bit hard to even remember what your community looks like since we have been in our houses for some time now. But try to remember a few places. Maybe a store, your school, the library, or even a park that you visit. Can you try to rebuild your town? But this time, can you think of new things you might see after this Covid-19 situation? Maybe more hand sanitizing stations or masks and glove vending machines. What will be different about your town? <https://legolibrarian.com/2017/10/25/lego-club-challenge-rebuild-your-town/>

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1. Can you tell me how you felt building something upside down?
2. How about building a house on stilts? Was it strong and sturdy? Or did it need a bit of updating?
3. How did you solve the problem?