

LEGO® EDUCATION SPIKE™ PRIME VIRTUAL SUMMER CAMP BETA



LOGISTICS MANAGERS make sure everything runs smoothly in a company. Just like you had to line up all the pieces for your chain reaction to work, they line up all the steps that need to happen for a product to be built in the factory and get to a customer.

CHALLENGE 4: PHYSICS - Make a chain reaction

Ever set up dominoes in a line, tipped the first one, and watched them all fall down? Or seen a Rube Goldberg machine that goes through tons of ridiculous motions just to turn the page of a book or water a plant? Creating a chain reaction is a fun way to accomplish a task in a unique way.

Challenge yourself to create a chain reaction that starts with a simple push. Then think about 4 or 5 ways you can keep the reaction going. Use a sensor and motors to move things along. Plan out your big finale. Will your machine push a ball into a cup? Flip a brick into the bullseye of a target? Turn something on or off? Brainstorm, sketch your ideas, and start building.

Remember if something doesn't work at first, keep at it. It will probably require some tweaking since you have many moving parts that are dependent on one another. When it's all up and running, give your new machine a name. Build, test, and iterate on your model design. Don't be afraid try something new. If it doesn't work or make total sense at first, that's ok. You can try a different approach.



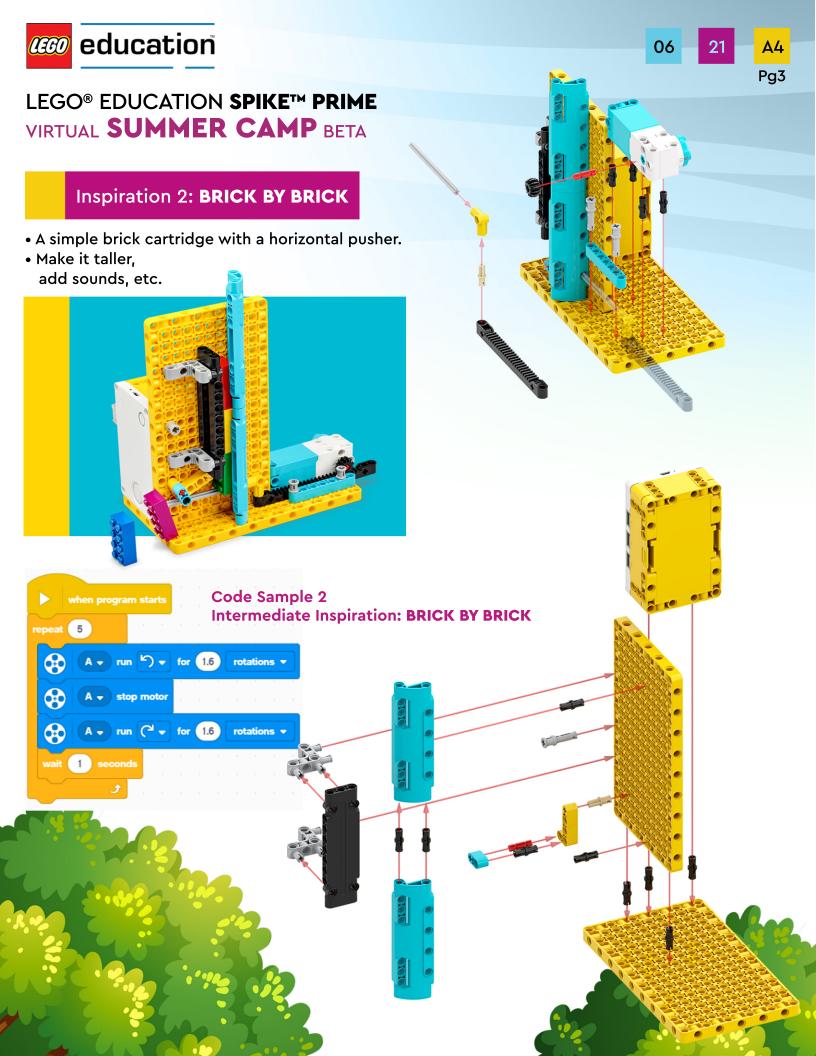
RUBE GOLDBERG

Although he inspired thousands of YouTubers and even Charlie Chaplin to create crazy machines, RUBE GOLDBERG never built one himself. Goldberg only drew them in cartoons! One of his famous drawings was featured on a U.S. stamp.

CHECK OUT MASTER TIPS!

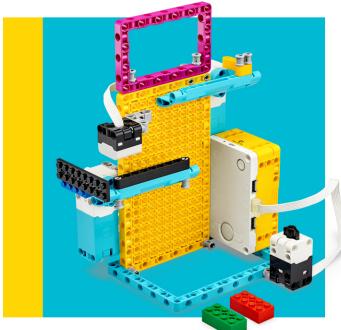
If you feel stuck, get inspired by these fun ideas from our Master Builders. You can play around with these bits of code, add them to your creation, and end up with something totally unexpected!



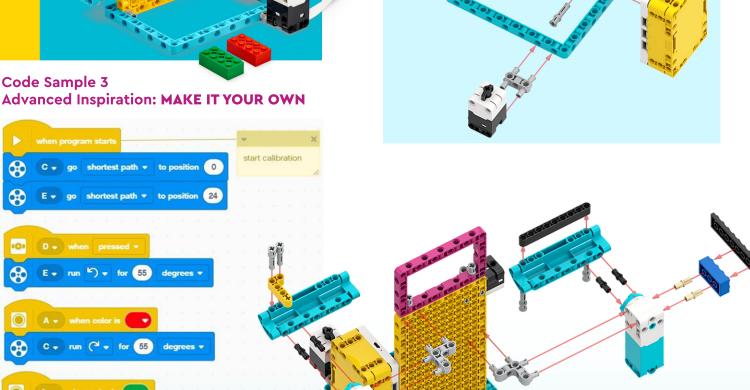


Pg4

- Create multiple trigger points in the chain.
- This setup can redirect 2 different colored bricks.



Advanced Inspiration: MAKE IT YOUR OWN





run 🖒 🕶 for 35 degrees

We can't wait to see your awesome solution to this week's project! Ask a grown-up to share your build, tag LEGO® Education on Twitter (@LEGO_Education) or Instagram (@LEGOeducation) with the hashtag #LEGOeduSPIKEprime for a chance to be featured as Build of the Week!