

The Daily STEM

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STEM in the News

From January 11-14, thousands of businesses showed off their new inventions at CES, the Consumer Electronics Show. Here were some of the top ideas shared last week at the virtual show:

>ColdSnap unveiled an at-home ice cream machine that makes individual servings of ice cream in about 90 seconds. Read more: [cnet.co/3qmanyO](https://www.cnet.com/3qmanyO)



>Many companies shared devices that help people with disabilities, like a keyboard that includes both letters and braille, as well as an app that cancels out background noise for hearing aids. Read more: [cnet.co/38SEisx](https://www.cnet.com/38SEisx)



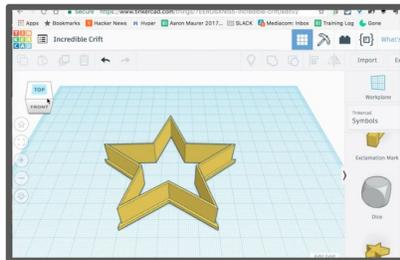
Do you have any ideas for making products better?

STEM Challenge

Have you ever tried 3D printing? You can design an object in [Tinkercad](https://www.tinkercad.com) that can be printed on a 3D printer. A cookie cutter is a simple object to practice your design and printing skills. STEM teacher Aaron Maurer explains that making

3 copies of a shape and overlapping them is the simplest way to make a cookie cutter. Find the instructions here and try designing your own:

youtu.be/BJattD2XqeY



STEM + Macaroni & Cheese

Did you ever eat some macaroni and cheese? It's a yummy combination, but some of the packaging can be bad for the environment. Kraft has announced a recyclable and compostable cup that is made of fiber instead of plastic. There won't even be a label on the cup. Instead, a machine will print directly on the container. Their goal is to make all of their products at Kraft "100% recyclable, reusable, or compostable" by 2025. What other products would be good to package better? Learn more: bit.ly/3qr8gcY



How It's Made

Did you know that balloons were first made from dried animal bladders? It wasn't until the 1930s when balloons as we know them were made with rubber or latex. Did you ever wonder how they are made? It involves round metal forms dipped into tanks of latex. But how do they get the balloons off the forms? Watch the process:

youtu.be/asrhvc4dPg



The Puzzle

What numbers would you put in for X and Y and Z to make the following true?

$$\begin{array}{r} X62 \\ +3Y8 \\ \hline 56Z \end{array}$$

Last issue's answer: It would take 8 hours for 1 person to dig the 4m by 4m by 4m hole. Because each distance is doubled, it takes 2x2x2 or 8 times as long

Mystery Photos

What's under the microscope?
(answer in next issue)

Last issue's answer: Measuring tape, cardboard, and a 3D Printed object

