

The Daily STEM

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STEM in the News

Every year in January, small and large companies show off their new ideas at the Consumer Electronics Show (CES). Not every new invention at CES becomes a reality, but many products become items we use every day. What were some of the best new ideas this year? An **AI powered cat food dish** from AI-Tails can detect your cat's temperature and how much they eat. It also uses a camera to see if your cat looks sick.

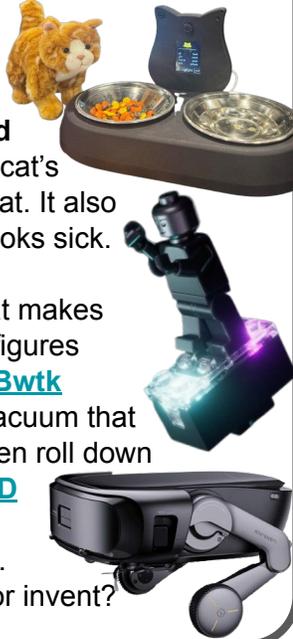
Learn more: bit.ly/49P0rWY

LEGO released a **Smart Brick** that makes light and sound when special minifigures are close! **Learn more:** bit.ly/49sBwtK

Roborock showed off their robot vacuum that can climb and clean stairs, and even roll down ramps. **Learn more:** bit.ly/4r7HvtD

Many of the products are improvements of existing products.

What product would you improve or invent?



STEM Career: Greenhouse Manager

Did you ever look at the vegetables on your plate or flowers in a vase and wonder what it took to grow them, especially during winter? A **Greenhouse Manager** is responsible for helping plants grow in indoor gardens. Greenhouses can be small, but most are large and filled with thousands of plants. The manager oversees the sprouting of seeds (germination), starting new plants by cutting pieces off other plants (propagation), and getting vegetables or flowers ready for sale (harvesting).

Greenhouses must be constantly monitored for the correct temperature and humidity, and to make sure that bugs and pests are not harming the plants. To work in



a greenhouse, many people get a college degree or enter a certification program. Courses in math, biology, science, and business help to be prepared for growing and selling the plants grown. If you want to learn more about careers in greenhouses, start growing your own plants and seeds, start a garden, and learn more:

Learn more: bit.ly/4b82SGq or seedyourfuture.org or watch bit.ly/3Nu6gBx and bit.ly/3LC5EJE

STEM Challenge

Did you ever make paper snowflakes? They're an easy and cheap project, and with a little practice you can make beautiful snowflakes to decorate your world (even snowflake shadows are beautiful). One important detail: snowflakes are hexagonal. That means they're six-sided. You can even find photos of real snow under a microscope and try to recreate them!

For directions, check out bit.ly/4r7n1Bb



The Puzzle

If a tree doubled in height each year for 8 years, how long did it take to reach half its height?
Is it possible to stand physically behind your best friend while your best friend is standing behind you?

Decode the answers using 1=a, 2=b, 3=c, 4=d:
19,5,22,5,14,,25,5,1,18,19,
19,20,1,14,4,,2,1,3,11,,20,15,,2,1,3,11

Mystery Photos

Can you identify the mystery items under the Microscope?

Decode the answers using 1=a, 2=b, 3=c, 4=d:
7,21,13, ,23,18,1,16,16,5,18
16,15,16,3,15,18,14
22,9,20,1,13,9,14

