

# The Daily STEM

Volume 3 Issue 1

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## STEM in the News

When people started staying inside more during the coronavirus shutdown, something happened. Dogs started getting fed more and exercised less. Danielle deWildt works as a dog walker. She noticed that the dogs were gaining weight, even her own dog. "The parks closed. The trails closed," she said. "I was home more and eating more snacks. Got to give one to him - look at that cute little face." But for some pet owners, extra time at home made them want to get outside with their dogs even more. That led to some dogs having problems with their joints from walking too much. Do you think there are ways to help keep dogs, and their owners, healthy during times of change? Learn more: [wapo.st/33qtwrU](http://wapo.st/33qtwrU)



## STEM + Airplanes

If you've ever flown in an airplane, did you look out the windows and see the world below? Maybe you even saw the wings that kept your plane in the sky. Some engineers at Delft University of Technology in the Netherlands designed and tested a plane where passengers sit inside the wings. Their scale model test plane was about 10 feet wide and 9 feet long. Why build a plane where you sit inside the wings? Would there be benefits or problems with that kind of design? Learn more: [bit.ly/3ijcv6C](http://bit.ly/3ijcv6C)



## STEM Challenge

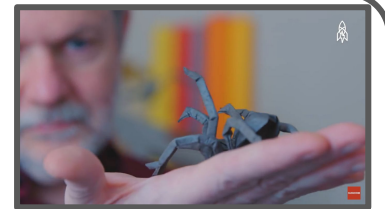
Have you ever spent time at school making things? Have you used cardboard, tape, glue, string, or straws to construct some new invention or idea?

Did you ever think about making things at home? Sometimes it helps to have some making supplies ready for when you think of something interesting to make. Here's some tips for making things at home:

- 1) Find a box or bin or basket or bucket to keep your making supplies in
- 2) Look around for items that you can use for making (cardboard, scissors, glue, tape, aluminum foil, straws, string, tools, paperclips, blocks, paints, foam, felt, paper, ribbon, wood, sandpaper, and more)
- 3) Be on the lookout for new items to add to your making supplies. Good places to look include clearance items at stores or recycling bins at home

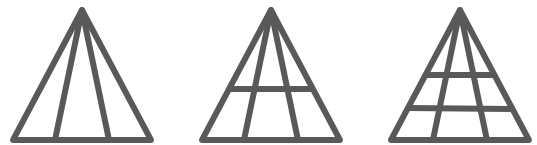
## STEM Careers

Have you ever heard of a physicist? That's someone who studies matter and energy to try to explain how the world works. Robert Lang is a physicist who worked at NASA studying lasers. Now he uses origami skills to fold things like solar panels for satellites and airbags for cars. He's still using his science and math skills, but in a much different way. Watch the video: [bit.ly/3m46ygd](http://bit.ly/3m46ygd)



## The Puzzle

How many triangles do you see in each of the following?



Last issue's answer: 3 ants each can go two different directions, so  $2 \times 2 \times 2 = 8$  possible paths. Only 2 possibilities have no collisions (clockwise & counterclockwise) so  $2/8$  or 25% chance

## Mystery Photo

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

Last issue's answer:  
A broken taillight, a piece of car trim, a piece of road with yellow paint on it

