

The Daily STEM

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STEM in the News

Dogs have super sensitive noses. Some dogs are trained to help emergency workers. They can even use their noses to find different types of diseases in people. The airport in Miami is using two dogs, Cobra and Beta, that have been specially trained to smell COVID. They are being used to sniff around the airport looking for people that might have coronavirus. They are correct 97% of the time, just as accurate as normal COVID testing. Can you think of other things dogs could be trained to detect? Learn more: bit.ly/3EcYfIc



How Things Get Made

Have you ever used a 3d printer? It's fun to design and print toys or other small items. Did you ever wonder what kind of bigger things could be 3d printed? Some companies have created giant 3d printers that use cement instead of plastic filament.



These printers can make houses, swimming pools, or foundations for windmills in just a few days (it just takes the cement a little longer to dry than plastic). Why would this be such a good idea?

Watch: bit.ly/3htfmLU



STEM Challenge

Did you ever think about how much garbage you throw away each day? It's easy to just use up something and throw the wrapper or container away, but do you think about where that waste goes? Keep a list of the items you throw away in 1 day. Determine which items can be recycled or composted. But what about the others? Could they be redesigned to reduce the waste? Pick one item and try to find a way to redesign it better.

STEM Career: Welding

Do you like working with your hands to make things? If you see something made of metal, there's a good chance it was welded. Welding is the process of joining metal, and it can be done using electricity or fuel.



From the cars and planes we ride in, to the buildings we live and work in, welding is how things made of metal are put together. Some welders even work underwater! Welding can also include other interests. Boilermakers work on rocket boosters, Ironworkers build bridges and stadiums, and Shipfitters help make aircraft carriers! If you're looking for a career that combines art and science, learn more at careersinwelding.com

The Puzzle

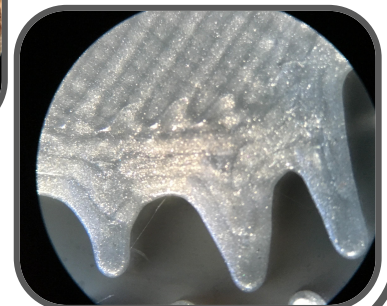
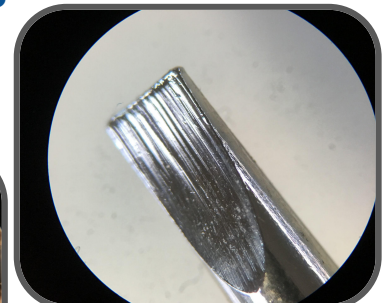
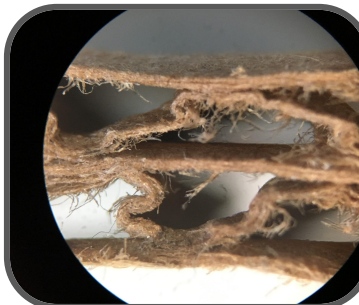
Can you figure out what makes 8549176320 special?

Decode the answer using $X=S$, $Y=T$, $Z=U$:

Fqq tk ymj inllyx fwj ns fqumfgjynhfq twijw

Mystery Photos

Can you identify the mystery items under the microscope?



Decode the answers using $X=S$, $Y=T$, $Z=U$...

xhwjbiwnajw

hfwgtfwi

3iuwnsyjiytd