

The Daily STEM

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STEM in the News

Maybe you've heard that dogs have great noses. They can smell things much better than humans can. Maple the English Springer Spaniel, and her handler Sue, used to help police officers find missing people. Thanks to researchers, Maple has been trained to find diseases in bee colonies. Bees are very important to pollinate crops for farmers. However, many bees die because of a disease called foulbrood. Usually farmers and bee experts must manually check hives for the disease, but dogs like Maple can be trained to sniff out the disease. That allows for quicker removal of the disease to help stop the spread. Learn more: bit.ly/46rtX4x & bit.ly/4nAVh6v



STEM Career: Epidemiologist

Do you like to look for patterns? Do you also like helping people? An **Epidemiologist** studies outbreaks of disease or injury to try and find the causes and stop the spread. They track information from hospitals and researchers to make predictions about future illness. Many epidemiologists focus on one particular area, like cancer, children's health, or environmental factors. Most work in hospitals, government, or colleges to track and organize the data, but sometimes have to travel to remote locations to study rare diseases. To become an epidemiologist, math and science classes are important, but it is also important to have good communication skills. College degrees, especially advanced degrees, are usually required. As technology continues to advance, more diseases can be discovered and tracked. If this kind of a career opportunity sounds interesting, learn more: bit.ly/3KiJFXd or watch an overview bit.ly/3KJDLyd or hear from an epidemiologist bit.ly/4nvBvt6 & bit.ly/3WbXYzi



STEM Challenge

Did you know that October is Fire Prevention Month? It was chosen because the Great Chicago Fire of 1871 happened on October 9th. Learning how to prevent fires, testing smoke alarms, and creating fire escape plans are all good ways to participate. But did you also know that lithium-ion batteries can start fires? These batteries in electronic devices, toys, and tools can cause fires from overheating or damage. Learn more from nfpa.org



The Puzzle

Suppose the card game you're playing requires all of the cards to be distributed evenly to all players. When Pedro and 3 friends were playing, each player got 15 cards. When 6 more friends join the game, how many cards will each player get?

Decode the answers using $26=a$, $25=b$, $24=c$, $23=d$:
8 18 3 24 26 9 23 8

Mystery Photos

Can you identify the mystery items under the Microscope?

Decode the answers using
 $26=a$, $25=b$, $24=c$, $23=d$:
25 26 7 7 22 9 2
24 9 26 21 7 8 7 18 24 16
15 22 20 12 21 26 24 22

