

The Daily STEM

Volume 7 Issue 1

August 25, 2024

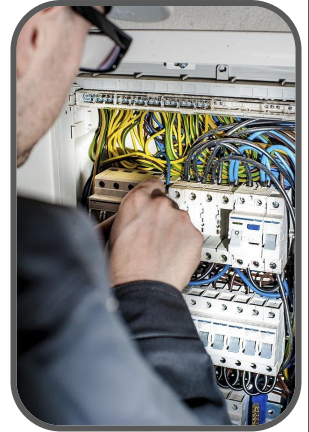
STEM in the News

Do you know someone who carries an EpiPen? Very soon they will have another option to use. The Neffy spray was just approved by the US FDA (Food and Drug Administration). Millions of people depend on Epinephrine, the medicine that stops an allergic reaction. Until now, it has been injected in emergencies with an EpiPen which uses a needle. The Neffy allows the medicine to be sprayed into a nostril to help stop the anaphylactic reaction that sends thousands of people to hospital emergency rooms each year. Do you know other ways that medicines can be put in the body? Can you think of other medicine that would be good to created? Learn more: bit.ly/4fWUWro



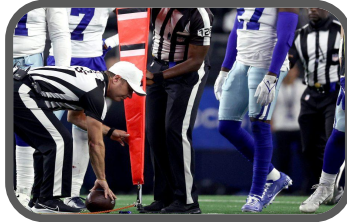
STEM Career: Electromechanical Technician

Did you ever put some circuits together in a science class? Or did you ever wonder how electricity makes a television or car work? An **Electromechanical Technician** is someone who combines understanding of electrical circuitry with mechanical movements. They may test electrical systems that operate machines in a factory. Some electromechanical technicians will work on robotics, making sure they are working correctly. Others work with unmanned equipment like submarines and drones, things used for deep-sea exploration or hazardous materials. You can even work on creating software to run machinery using coding skills. With more and more technology being used, jobs like this are crucial to make our world work. To become one, you'll probably need a certification or an associate's degree. It is also important to have communication and problem-solving skills. You can find some blueprints or diagrams to practice reading to learn how they are used for setting up machines. If you think this sounds like an interesting career, learn more: bit.ly/3Mks7Yj or bit.ly/472rTi7 or watch bit.ly/3YYluS3



More STEM in the News

Have you watched a football game (or played a football game) and had to wait for the referee to measure for a first down? The NFL is testing a camera system to determine the measurements. Would this work well? Can you imagine any problems? Read more: bit.ly/3AA8CIO



The Puzzle

Are you a "Bookworm?" There are beetles & worms that do eat books! Suppose there are 4 books, each book having 3 cm of pages and a front & back cover 0.5cm each. If a beetle starts eating on page 1 of book 1 & eats straight through to the last page of book 4, how far does the beetle travel? *Decode the answers using 1=a, 2=b, 3=c, 4=d: 14,9,14,5 3,13*



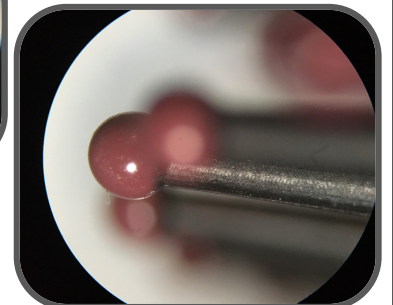
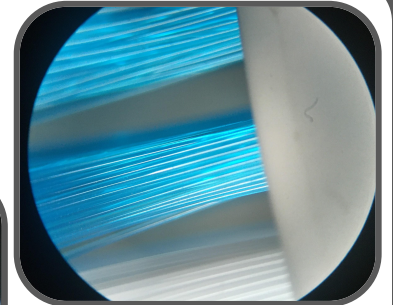
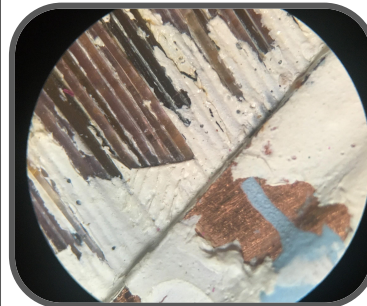
STEM Challenge

Do you like to eat pineapple? You may not know it but a pineapple is neither a pine or an apple, but more of a berry. The plants can live up to 50 years, but only produce one fruit per season. And almost half the world's pineapples are grown in Costa Rica. Did you ever grow a pineapple? Cut off the leafy top, dry it a few days, and put it in some dirt to start growing! Learn more: bit.ly/4cHO3HI



Mystery Photos

Can you identify the mystery items under the microscope?



Decode the answers using 1=a, 2=b, 3=c, 4=d:

20,15,15,20,8 2,18,21,19,8
16,1,9,14,20 2,18,21,19,8 8,1,9,18 2,18,21,19,8