

The Daily STEM

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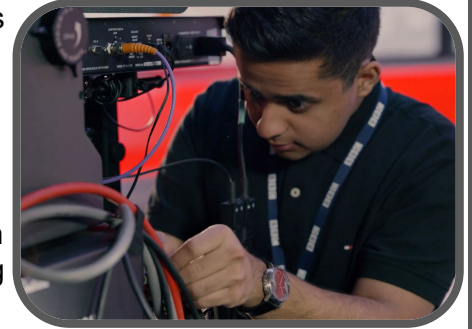
STEM in the News

In November, some residents of New York were surprised to see green slime oozing from the sewers. When photos were shared online, many people instantly thought of Ghostbusters or Ninja Turtles. However, it was quickly pointed out it was just plumbers using fluorescent dye. The dye is perfectly harmless, it just works like food coloring but much brighter and more concentrated. The plumbers use the bright dye to make it easy to find leaks in pipes. Scientists and engineers also use bright colored dye to track how water moves. In 2023, researchers from a university added dye to freshwater flowing into the Pacific Ocean to see how the fresh and salty water mixed. Can you think of another way to use brightly dyed water? Learn more: bit.ly/3SL7tEK



STEM Career: Broadcast Technician

Did you ever wonder how the shows you see on TV get recorded and make it to you? A **Broadcast Technician** is someone who do everything with the equipment that is used for television. They may start by setting up for a broadcast either in a studio or at an event. As things get recorded, they might be involved with switching between cameras and microphones or making sure that all of the sounds are the same volume. When things go wrong, it's important for a broadcast technician to know how to fix equipment quickly. Some even help with broadcast of sporting events. Most people who get into this type of career study math, science, and technology in school, and usually get some extra training after graduation. They also have to keep up with new technology as it becomes available. Internships allow people to learn on the job from experienced professionals. If you think this sounds like an interesting career, learn more: bit.ly/486igOh or listen to Jahangir tell how he decided to become a broadcasting hero: bit.ly/3SUHYBb



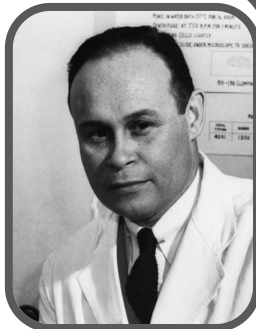
The Puzzle

Each of the stamps use the numbers 1,2,3,4,5,6. Can you figure out the order for the last stamp? Decode the answer using 0=a, 1=b, 2=c, 3=d:
5 8 21 4 18 8 23 19 7
17 4 4 5 14 20 17 14
13 4 19 22 14



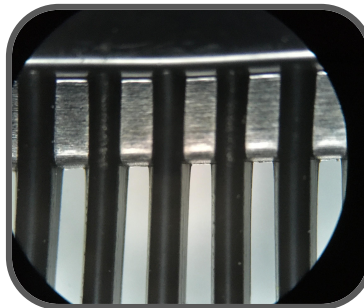
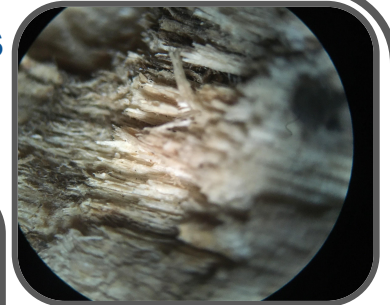
Amazing Inventor

Do you know someone who donated blood or had to get some blood after an accident or surgery? We can all thank Charles Richard Drew for that. He found ways to collect, store, and save blood after people donate it. His work even helped soldiers and civilians in Britain during World War II who were in desperate need of blood. Learn more about this amazing inventor's story: bit.ly/3w5PT5C



Mystery Photos

Can you identify the mystery items under the microscope?



Decode the answer using 0=a, 1=b, 2=c, 3=d:
18 19 8 2 10 2 14 12 1 1 0
19 19 11 4 18 7 8 15 15 8 4 2 4