

The Daily STEM

Volume 5 Issue 9

May 21, 2023

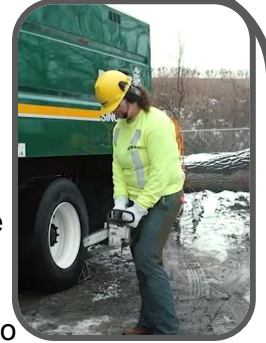
STEM in the News

Did you ever go fishing? You've probably seen fish in all colors, shapes, and sizes. But sometimes a fish can be a completely different color than it should be. Normal largemouth bass are green colored with black spots. Jacob Moore, an Arborist and competitive fisherman, recently caught a very different bass. He was practicing for a fishing tournament and caught a golden colored bass, a product of a genetic mutation called xanthism. The yellow pigments in the skin dominate in xanthism, but it is extremely rare. Very few people have seen a fish like this, and after taking a photo, Jacob returned the fish to the river. What colors of fish have you seen? What color would be best for a fish? Find out more: bit.ly/3OwfFab



STEM Career: Arborist

Did you ever wonder who keeps trees healthy in your neighborhood? An **Arborist** is someone who works with every step of a tree's life to make sure they are healthy and safe for a community. Trees need to be planted, cared for, trimmed, and removed, and an arborist can learn to do all of these things and more. Some jobs require using big machines, while others test the soils to make sure the plants can grow healthy. If you like climbing trees, there are also jobs with a view from the tops of trees! To become an arborist, classes like math, biology, and botany are helpful to take in school. After school, finding a job or apprenticeship program can get you started. There are also college degrees in arboriculture, forestry, or biology. Many people like being an arborist because it allows you to work outside in nature. If you think working with trees sounds interesting, watch some videos about becoming an arborist: bit.ly/43gvGVM & bit.ly/3BHACqW or learn more: bit.ly/3q3DSKH & bit.ly/43ec9FD



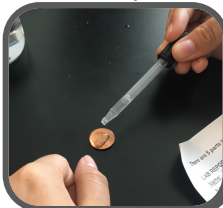
The Puzzle

Suppose you have 10 toys with a total weight of 75 lb: 15 lb, 13 lb, 11 lb, 10 lb, 9 lb, 8 lb, 4 lb, 2 lb, 2 lb, 1 lb
How can you put the toys into 3 boxes, but each box can only hold a maximum of 25 lb? (adapted from mathisfun.com)

Decode the answer using $z=a, y=b, x=c, w=d$
gsviv ziv nzmb zmhdvih, yfg gib urugvvm zmw gvm rm
Imv ylc

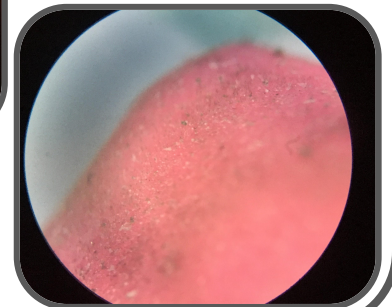
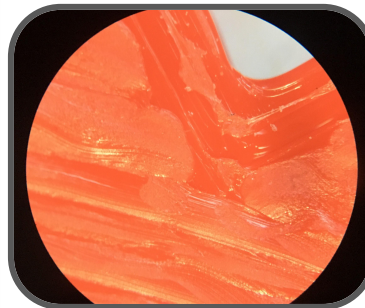
STEM Challenge

Surface tension is a property of liquids where the surface of a liquid acts like a cover. Not like a really firm cover, (like on a stove pot) but just enough of a cover or skin that some special things can happen. Did you know that many things can float on the surface of water? Maybe you've seen a leaf float, but did you know a paperclip can float on water? And water drops even hold together when dropped on a coin. How many drops of water (or other liquids) can you get to stay on a penny?



Mystery Photos

Can you identify the mystery items under the microscope?



Decode the answer using $z=a, y=b, x=c, w=d$
tivvm xizblm, 3w kirmgrmt,
vizhvi