The Daily STEM

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STEM in the News

Do you know where the fuel for your car comes from? Most vehicles are powered by gasoline that comes from oil. More new cars are being built that run on electricity. But scientists at the auto company Porsche have started producing a new type of fuel called e-fuel. They take water (H₂O) and split it apart into hydrogen and oxygen. The hydrogen is combined with carbon from

carbon dioxide (CO₂) in the air. The whole process is done using wind power in the country of Chile, because Chile is one of the windiest places on Earth.



Out of 8760 hours in a year, Chile has 6000 hours of "good quality wind" for making wind power. Porsche hopes to make more fuel each year as they improve the process. What other types of fuel could cars run on? What are your transportation solutions?

Find out more: cnb.cx/42GAHHI and bit.ly/3lN12mX

The Puzzle

Suppose 7 people show up for a new job, and each of them shakes hands only once with each of the others. How many total handshakes will happen?

Decode the answer using q=w, r=x, s=y, t=z nqyhnsihybuhxmbueym

STEM Challenge

Springtime (or anytime) is a great time to watch flowers bloom! Flowers come in all shapes, colors, and sizes.



Try adding some flowers to your day, or make some flowers to give away and brighten someone's day:

- 1) plant some flower bulbs or flower seeds in a garden or flower pots
- 2) turn some pinecones into flowers (like these bit.ly/3JEifqE)
- 3) make some origami paper flowers (like this tulip bit.ly/210aNG1)



STEM Career: Beekeeper

Did you ever watch a bee buzzing around a flower and wonder how they turn pollen into yummy honey? A **Beekeeper or Apiary Scientist** is someone who

works with bees. They make sure that bees stay healthy to produce honey and beeswax. Many beekeepers also work with farms to make sure that their plants get pollinated to produce the

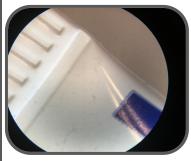


fruits and vegetables we eat. Some apiary scientists work in laboratories, trying to help protect the bees from diseases that can hurt them. Although the number of beekeeping jobs isn't growing, it is an important hands-on job in agriculture that can't easily be done by robotic machinery. To become a beekeeper, classes like math, biology, and geography are helpful. College studies in Botany, Biology, or Wildlife Management are common for people in this type of career. If you think working with bees sounds interesting, learn more about beekeeping:

<u>bit.ly/3JL4PJq</u> & <u>bit.ly/3ZykB0l</u> or bee rescuers:
<u>bit.ly/3KcBnxC</u> and the basic equipment a beekeeper uses: <u>bit.ly/3IGA805</u>

Mystery Photos

Can you identify the mystery items under the microscope?



Decode the answer using q=w, r=x, s=y, t=z wlyxcnwulx niinbjumny fcabnvofv



