

# The Daily STEM

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## STEM in the News

Did you know that shipwrecks in lakes last longer than shipwrecks in the ocean? That's because the salt water eats away at wood. One of the best spots to explore old shipwrecks is Michigan. "A lot of vessels in the Great Lakes are directly related to the War of 1812 and to the whole development of this nation as the United States," says Wayne Lusardi, the state's maritime archaeologist. "You have the paddle boats that were part of the great westward migration that moved the population from the east to the inland areas." It's now easier to find and explore the shipwrecks because of an app that shows their location and info about the history of each ship. Would you want to explore shipwrecks?



To learn more: [bit.ly/2Tvqble](http://bit.ly/2Tvqble)

## STEM + Taxis

Have you ever ridden in a taxi? They work well to help you get where you're going, but when there are a lot of other cars it can be slow. Many companies are trying to combine the technology of flying and drones with the idea of taxis. Toyota, Hyundai, Uber, and Boeing are leading the idea. Many of the vehicles are electric with rotors, like drones, so they don't have jet engines. Each company is designing different looking vehicles. Instead of fixed-wing aircraft, many use vertical takeoff and landing (VTOL) aircraft with wings that rotate so they don't need long runways. Most companies believe they can have flying taxis ready by 2023, and it's possible that they will be a big part of travel.



The benefit of a flying taxi is that traffic isn't a problem. But there are problems like cost of vehicles and safety, and if they are driverless they could be targeted by hackers. What other problems could you imagine with flying taxis? Would you want to fly in a taxi?

To learn more [cnb.cx/2IsiXrZ](http://cnb.cx/2IsiXrZ)

## Money jokes

- What kind of bank has nothing but water in it?
- What adult would be sad about losing 20 pounds?
- Where does someone who can't stop thinking about money go?
- What kind of food is nuts about money?
- What is the richest body of water?
- What has a tail and a head but no legs or body?

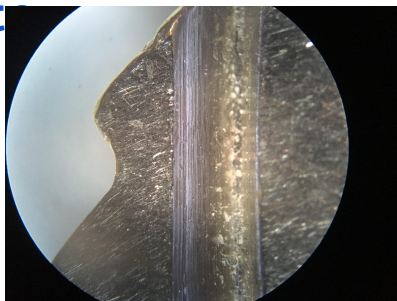
## The Puzzle

How can you add eight 4's together so that the total amount is 500?

Last week's answer: *Missing letters N T B L*  
A **notable** doctor had **no table** and therefore, was **not able** to operate

## Mystery Photo

What's under the microscope?  
(answer in next issue)

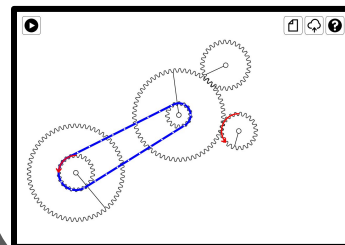


Last issue's answer:  
A clothespin

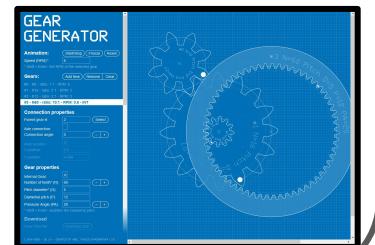
## STEM Challenge

Do you know what a gear is? A gear is a circular mechanism that transfers motion. Gears are usually attached to a shaft (like a stick) that's connected to a motor. Gear size is based on radius and number of teeth. Try one of the following gear websites to make your own, or try building some using cardboard!

**Gear Sketch**  
[Gearsket.ch](http://Gearsket.ch)



**Gear Generator**  
[geargenerator.com](http://geargenerator.com)



## Money joke answers

- A Snowbank
- A British adult
- Headquarters
- Cashews
- A Riverbank
- A Coin