

# The Daily STEM

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## STEM in the News

New technology will allow people to take trips to space. Maybe you think flying to space would be fun but think the launching and flying would be a little scary. World View is one company designing space capsules carried by balloons to take people to the edge of space. They plan to fill the balloon with very light gas, like helium or maybe even hydrogen, to slowly lift passengers. The capsule will be shaped like a hexagon with big windows, giving everyone a view of Earth below. They even plan to limit the number of digital screens inside, so the focus can be on the natural beauty outside the windows.



They hope to start the \$50,000 flights in 2024. Would you fly to space in a spacecraft like that? How would you design a spacecraft? Learn more: [bit.ly/3AKultQ](https://bit.ly/3AKultQ)

## The Puzzle

Can you solve these riddles:

Twelve cars were lined up bumper to bumper. How many bumpers were touching each other?  
Would it be cheaper for you to take one friend to the movies twice or two friends at the same time?  
If a doctor gave you 5 pills and told you to take one every half hour, how long would they last?

*Decode the answer using  $b=a$ ,  $c=b$ ,  $d=c$ ,  $e=d$   
 $uxfouzuxp$ ,  $uxp$   $gsjfoet$   $bu$   $tbnf$   $ujnf$ ,  $uxp$   $ipvst$*

## STEM Challenge

Accurate measurements are very important for anyone in a STEM career. Find a ruler or measuring tape, some paper, and a pencil. Pick an object you can accurately measure and draw, like a block, book, desk, or refrigerator. For a bigger challenge, try measuring one or all of the rooms in your school or home. If you have access to programs like CAD or Tinkercad, try recreating your drawings on a computer screen!

## STEM Career: Drafting

Do you like drawing? Did you know that besides drawing books or comics, you can draw buildings, bridges, or circuit boards as a career? Drafters turn sketches and measurements from engineers and architects into detailed drawings used to make things. To be a good drafter you must be able to visualize in two and three dimensions. That means being able to look at a drawing on paper and “see” what the object would look like in real life. Many drafters start by drawing on paper, but quickly learn how to use computers to design. CAD (computer-aided design) software is often used for drawing on computers. Most drafters get training after high school, usually including a two year associate’s degree. If drafting sounds interesting, learn more about what they do and different types of drafters in this article: [bit.ly/3Bhtz9m](https://bit.ly/3Bhtz9m) and in this video: [youtu.be/y8WjCE-YfeE](https://youtu.be/y8WjCE-YfeE)



## Mystery Photos

Can you identify the mystery items under the microscope?



*Decode the answers using  $b=a$ ,  $c=b$ ,  $d=c$ ,  $e=d$   
 $ejdf$ ,  $djsdvju$   $cpbse$ ,  
 $mbqupq$   $lfz$*