

# the Daily STEM

Volume 2 Issue 1

September 8, 2019

## STEM + Ketchup

Some problems may not seem like a big deal, but they still deserve solutions. For years, people who have tried to pour ketchup out of glass bottles have struggled to get the ketchup out.

Heinz decided to make a fun solution: they put the labels on crooked. When you want ketchup, just tilt the bottle until the label is straight.



How do you think they decided this angle was the best angle for pouring? Isn't a squeezable plastic bottle a better solution? What other problems could you solve with simple solutions?

Do you want to go buy a bottle of ketchup and try it yourself? To learn more: [bit.ly/2kxvhi8](https://bit.ly/2kxvhi8)

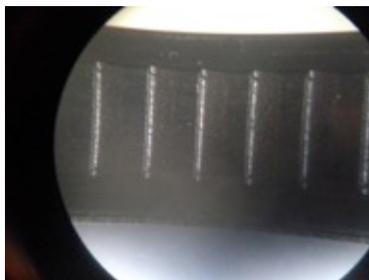
## STEM Challenge

Fall is coming soon. That means that fruits are ripening, leaves change color, and animals start preparing for winter. Take a walk with your classmates or your family and try to notice signs of the changing seasons. Write them down in a notebook and compare with the people you walked with. Who was most observant? Who saw the most interesting thing?



## Mystery Photo

What's under the microscope?  
(answer next week)



Last week's answer:  
a spider

## STEM in the News

What if you needed surgery but a doctor couldn't get to where you were? Or if you were an astronaut but there was no doctor with you in space? Many hospitals are experimenting with robotic surgery. Dr Patel was able to use a set of joysticks and a video monitor to do surgery on patients 20 miles away. Kind of like playing a video game, but real.

What other things could be done with this kind of technique? What could go wrong? To learn more: [zd.net/2lEuu8](https://zd.net/2lEuu8)



## The Puzzle

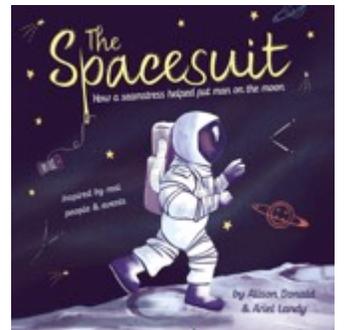
What word from group B belongs to group A and why?

- A) FRONT, SKI, MELON, FALL
- B) ROAD, TIRE, TOWER, CLIFF

Last week's answer: The message was in Morse Code and said "Do you know what this says?"

## STEM Book

On July 20, 1969, the first people stepped foot on the moon. But it never would have been possible without the efforts of many people back on Earth. There was even a contest to design the spacesuit for the astronauts to wear in space. A bunch of seamstresses figured out a way to make a spacesuit with layers of Nylon. Their suit was chosen and made it possible for astronauts to safely be in space. Check out *The Spacesuit* by Alison Donald to find out more!



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