

# The Daily STEM

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## STEM in the News

Did you ever try to float a toy boat in a river or lake? Ollie and Harry Ferguson, ages 13 and 11, have built some special model boats to float around Antarctica.

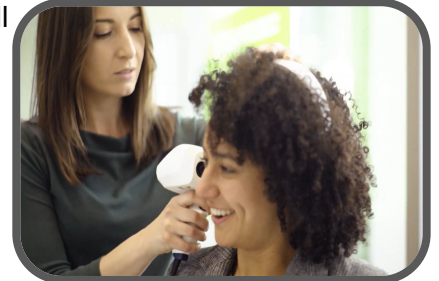
The boats, about 1 meter in length, will take about two years to float the 12,500 miles around the continent. Special equipment on the boat will send back information about the air and water temperature, location, and even pH level of the water.



The boys are very motivated to learn and experience new things. They made a list of 500 adventures to try before they turn 18. The 456 so far include sleeping in caves, catching lobsters, and sailing a Playmobil boat across the Atlantic ocean. What adventures would you put on a list to accomplish? Find out more, including how to see the data from the boats: [bit.ly/3DRUDwa](https://bit.ly/3DRUDwa)

## STEM Career: Audiologist

Did you ever have trouble hearing someone? Or do you know someone who can't hear very well? An **Audiologist** is someone who helps people of all ages with hearing loss issues. The first step to helping someone is to find out why there is a problem. The ear is a very complicated part of the body, and just like a car or phone, one small issue can have a big impact if it's not fixed. Technology is helping more and more people hear better every year. Hearing aids work like headphones for the noises around you. There are even apps that can turn a phone and earbuds into hearing aids. Cochlear implants actually attach to a person's head and send a signal to a device in the skull. In addition to helping with hearing, audiologists also work to help people who experience dizziness, since your ear is responsible for balance. If you think helping people hear better sounds like an interesting career, watch a video about becoming an audiologist:



[youtu.be/OlcPbndZMo](https://youtu.be/OlcPbndZMo) or [youtu.be/0OdAhEoNp9E](https://youtu.be/0OdAhEoNp9E) or learn more: [bit.ly/3s1zIJO](https://bit.ly/3s1zIJO)

## The Puzzle

A "rebus" is a word puzzle. Can you guess these famous sayings?

1	end	3
end	5	end
7	end	9
end	11	end



Decode the answer using 1=a, 2=b, 3=c  
15;4;4;19 1;14;4 5;14;4;19 15;3;20;15;  
16;9 18;15;21;20;5 19;9;24;20;25 19;9;24



## STEM Challenge

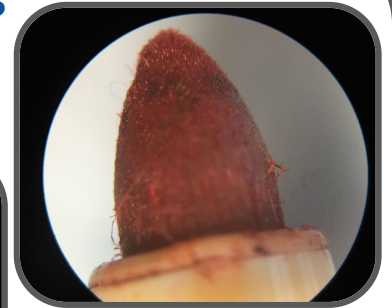
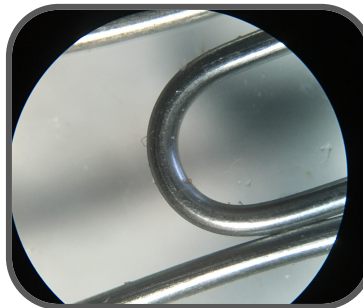
The model boats that the boys built for Antarctica took two years to build and get approved for use. But there are some simple ways you can build your own boats to start learning about design and how they move. One common boat plan is to use a plastic bottle, a rubber band, and spoons (here: [bit.ly/3QDOWmW](https://bit.ly/3QDOWmW)). Or just try adding a sail to something that floats, then adjust the size and shape

to make the boat move faster in the water.



## Mystery Photos

Can you identify the mystery items under the microscope?



Decode the answer using 1=a, 2=b, 3=c, 4=d  
4;18;25 5;18;1;19;5 13;1;18;  
11;5;18 16;1;16;5;18;3;12;9;16;  
13;15;15;14 13;1;16

