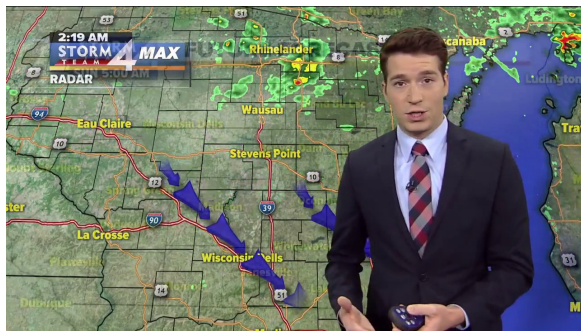


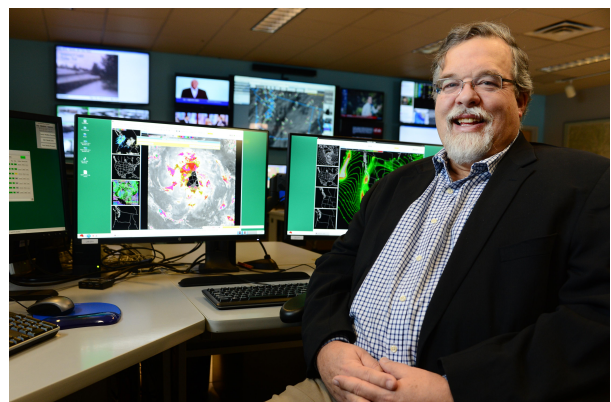
# Meteorology

Hi, my name is Arumi. My partner's name is Arturo. The STEM career that we chose to research is Meteorology. Meteorology is the study of the atmosphere and the effects on our weather.<sup>1</sup> We picked Meteorology because we thought it sounded interesting. Also because it's hard to be precise with the weather.



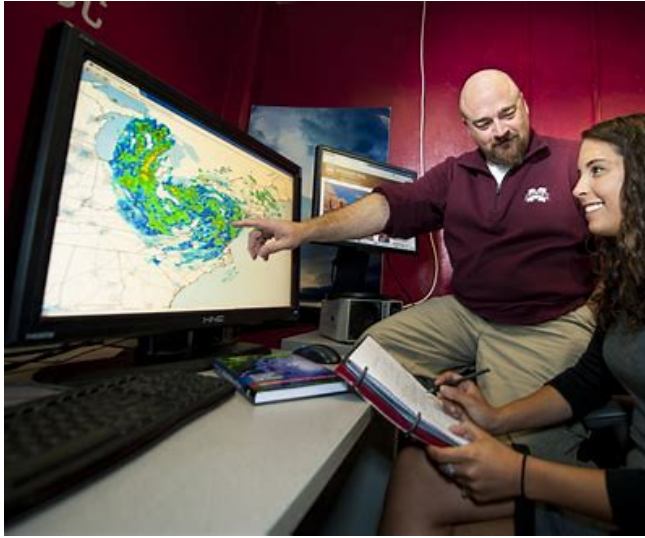
A person who studies the weather is called a meteorologist.<sup>2</sup> A lot of people think all the weather people we see on TV are meteorologists. This picture shows a man giving a weather report. He might or might not be a meteorologist. (photo taken from The Weather Channel)

This man is a meteorologist. He is looking at the screens to get information about the weather. He knows how to record and analyze data using weather instruments. (photo: The Spokesman Review)



<sup>1</sup> [answers.search.yahoo.com](http://answers.search.yahoo.com)

<sup>2</sup> [en.wikipedia.org/wiki/Meteorologist](http://en.wikipedia.org/wiki/Meteorologist)



To become a meteorologist, you need to go to a university for 4 years. You need to get a Bachelors Degree in Meteorology. You would need to study mathematics, advanced physics, chemistry, and have good computer

proficiency.<sup>3</sup> You also have to have excellent communication skills. (photo from [www.msstate.edu](http://www.msstate.edu))

We think the field of Meteorology will definitely change over the next 10 years. We think the instruments will get smaller, yet more precise. Meteorologists will probably have better and more accurate data of the weather so this can help prevent major disasters and more importantly the loss of life.

Meteorologists use many instruments in their field.



<https://www.aliexpress.com>

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<sup>3</sup> [wikihow.com/Become-a-Meteorologist](http://www.wikihow.com/Become-a-Meteorologist)



[www.top5thermometers.com](http://www.top5thermometers.com)

Thermometers measure temperature.



[weathershack.com](http://weathershack.com)

Anemometers measure wind speed.



[www.grainger.com](http://www.grainger.com)

Rain gauges measure the amount of rain.



[weathershack.com](http://weathershack.com)

Drawn from DWH Osculati SpA

Hygrometers measure humidity or water vapor in the air.



[northerntool.com](http://northerntool.com)

Snow gauges measure the amount of snow.



[wayfarer.com/cupolas/weathervanes](http://wayfarer.com/cupolas/weathervanes)

Wind vanes measure wind direction.



[weathershack.com](http://weathershack.com)

Barometers measures air pressure.



[www.amazon/weatherballoon](http://www.amazon/weatherballoon)

Weather balloons carry instruments up to the sky and send back information on pressure in the atmosphere.

All of these instruments help Meteorologists. They help them predict the weather.<sup>4</sup>

It takes many skills to be on a Robotics Team. These skills will help us with any STEM career. Meteorologists also need these skills to do their job.

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<sup>4</sup> Measuring and Forecasting Weather/Let's Talk Science

It takes TEAMWORK. This will help the team solve problems together.



You need to COOPERATE with others. You need to get along so that everyone works well together. Also everyone needs to pitch in a little.

You need good LISTENING SKILLS because you have to listen to what everybody has to say.



You have to be CREATIVE. This will help you think of new ways to make things.

You need to be RESPECTFUL because everybody has good ideas.



“Outside we are different, but friends we can be. Respecting each other will bring harmony.”



You have to be a HARD WORKER. You will need to put some effort into what you are doing to get things done.

You should have PASSION for what you are doing. Otherwise why would you be on the Robotics Team if you don't like what you are doing?

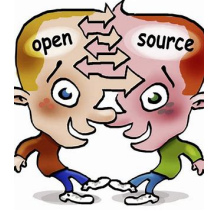


© Can Stock Photo - csp11138613



You will need to have **LEADERSHIP SKILLS** in order to make decisions and share them with the group.

Lastly, you need to have an **OPEN MIND** so you can be open to new ideas.



Being on a Robotics Team helps us become leaders. It will help us by having the experience of working with somebody else but also being independent.



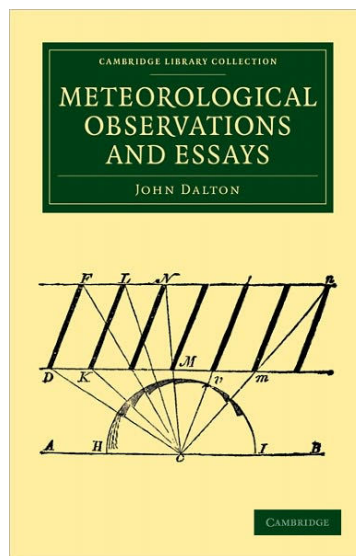
(Photo: [scienceandindustrymuseum.org.uk](http://scienceandindustrymuseum.org.uk))

John Dalton is known for being the ‘Father of Meteorology’ and his discovery of atoms.<sup>5</sup> Though he never studied Meteorology, he spent time with a

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<sup>5</sup> John Dalton-Atomic theory, Discovery & Experiments - Biography

meteorologist named Elihu Robinson who introduced him to the field of Meteorology. While he was with Elihu, he would take notes on weather patterns. He was curious about what was happening around him, so he would study the atmosphere. He saw rain drops and wondered what they were made of. From that, he developed the theory of atoms. Dalton would also make his own instruments. He wrote a book about meteorology and his observations.<sup>6</sup>



(Photo: [www.bookhub.com](http://www.bookhub.com))

John Dalton was successful because he was observant and he wondered about the world around him. He was curious and wanted to know how things worked. He was very smart and independent which led him to many discoveries. Being on a Robotics team makes me want to learn more just like Dalton. He inspires me to discover something new that no one else has ever discovered.

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<sup>6</sup> Easy Science for Kids

Clipart -

Teamwork ([rivivalfire4kids.com](http://rivivalfire4kids.com))

Listening and Speaking, lightbulb, and hardworking ([stock.adobe.com/clipart](http://stock.adobe.com/clipart))

Hands (iStock)

Jellybeans ([clipartkid.com](http://clipartkid.com))

Heart (Can Stock Photo)

Leadership ([clipart-library.com](http://clipart-library.com))

Open mind ([sas.com/Open/Source](http://sas.com/Open/Source))

We used the internet to find sources for the information we needed.  
The citations are in the footnotes, in the text, or by the photos.

## VEX IQ Challenge Career Readiness Challenge Meteorology

Photo Essay written by:  
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