



Bring out the Science in your Student

Videos “Thinking Outside the Box for Amazing Learning Opportunities”

For Students and Parents

https://www.ted.com/talks/william_kamkwamba_how_i_harnessed_the_wind?language=en

https://www.ted.com/talks/richard_turere_my_invention_that_made_peace_with_lions?referrer=playlist-ted_under_20

<https://www.youtube.com/watch?v=BWUYHSFX1Gc>

For Parents

https://www.ted.com/talks/beau_lotto_amy_o_toole_science_is_for_everyone_kids_included?referrer=playlist-ted_under_20

https://www.youtube.com/watch?v=jAemh_JxgOk

<https://www.pinterest.com/pin/81909286945830872/>

<https://www.pinterest.com/pin/81909286945830776/>

Great Websites to Help Build the Science Mindset with your Children

Virtual Field Trips

[Virtual Field Trips you can take from home](#) – Explore zooms and museums from home

[Live and Real-Time Viewing of Animals at San Diego Zoo](#) – See the animals at the zoo close up in real time

[National Marine Sanctuaries Virtual Underwater Dives](#) – Be amazed at our national treasure of marine life

For more information contact:

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Charity Russell Charity.russell.cr@gmail.com

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[National Parks in the USA](#) – Virtual tours of the beautiful National Parks of the United States

[National Air and Space Museum](#) – Virtual tour of the National Air and Space Museum

Online Activities

[Slooh](#) – Control telescopes remotely and explore space with a community

[Zooniverse](#) – Contribute and participate in helping with real-world projects with scientists online

[NASA Citizen Science](#) – Online projects in science from NASA

[Chicago Nature Museum](#) – Explore the nature museum through virtual tours and activities

[Monterey Bay Aquarium, CA](#) – Resources for Doing Science at Home

[Crash Course](#) – Engaging short videos for high school and some middle school students on all topics in science

[Ology](#) – Large number of activities from the American Museum of Natural History

[Hayden Planetarium Videos](#) – Large number of fascinating videos about space

General Resources

[NASA Education](#) – Contact for engagement in education through NASA

[Skype a Scientist](#) – Pull together a small group of students and arrange a real time meeting with a scientist

[Science Buddies](#) – A site full of helpful ideas for developing authentic research projects for science fairs

[NASA Monthly Express](#) – Information for parents and students related to cool participatory events at NASA

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Hands-on Science at Home

[Science in a Bag](#) – An array of fun science exploration activities that can be done safely at home

[Science Take-Out](#) – Company that has an array of great science experiments (cost)

[Exploratorium](#) – Learning toolbox for virtual classroom and home learning

[15 Fun and Easy Experiment to do at home](#)

[Science at Home with Bayer](#) – Large list of great science activities you can do at home with students

[Stuck at Home Science](#) – Activities for families using household supplies

[Frost Science Museum Activities](#) – Array of home science activities

[Nova Lab at PBS](#) – Multimedia experiences that combine video, animation and games to learn about science

[Space Racers](#) – Preschoolers animated series space exploration

[Live Science](#) – Easy-to-do activities for students to do at home

[3D Models from NASA](#) – If you have an available 3D printer (library) print rockets, asteroids and satellites

[Paper Models of Spacecraft](#) – Downloadable and make paper models of various European Spacecraft

[Paper Airplanes](#) – Instructions on how to make great paper airplanes

[Celery Challenge Toolkit](#) – Experiments with celery (some need a microscope)

Science Competitions

A fantastic way to have an individual or group to develop a great science project and compete at the local

national or international level. Contact Teacherrich36@gmail.com for more information.

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[Competitions](#) – Huge sample of various competitions all topics all ages

[Invention Convention](#) – A place for students to show their inventions and compete for prizes. Open to all students all ages (K-12), you can use their curriculum

[Exploravision](#) – Great competition, projecting technology 20 years into the future (k-12)

[Conrad Challenge](#) – Virtual engineering challenge for a group of 2 to 5 students (13-18) who want to create products/and or services to address global and local challenges

Mentorships and Scholarships

Contact Teacherrich36@gmail.com for more information.

Twenty Fascinating Books about Black Inventors and Scientists

1. [Garrett Morgan: Historically](#) by Maria Mas
2. [What Color Is My World? The Lost History of African-American Inventors](#) by Kareem Abdul-Jabbar
3. [Katharine Johnson \(You Should Meet\)](#) by Thea Feldman
4. [Whoosh! Lonnie Johnson's Super Soaking Stream of Inventions](#) by Chris Barton
5. [What Are You Figuring Now? A Story about Benjamin Banneker](#) by Jeri Ferris
6. [Mae Among the Stars](#) by Roda Ahmed
7. [National Geographic Readers: George Washington Carver](#) by Kitson Jazyuka

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SCIENCE RESOURCES

8. [Vision of Beauty: The Story of Sarah Breedlove Walker](#) by Kathryn Lasky
9. [What If There Were No Black Folks? A Story About African-American Inventors and Pioneers](#) by Toni Abasi Hill
10. [Hidden Figures: The True Story of Four Black Women and the Space Race](#) by Margot Lee Shetterly
11. [The Man Who Invented the Lawn Mower: And Other Inspirational Black American Inventors and Their Inventions](#) by Christopher Davis, Jr
12. [All Aboard! Elijah McCoy's Steam Engine](#) by Monica Kulling
13. [The Doctor With an Eye for Eyes: The Story of Dr. Patricia Bath](#) by Julia Finley Mosca
14. [Lewis Latimer: Black Americans of Achievement](#) by Winifred Latimer Norman
15. [Great Black Heroes: Five Brilliant Scientists](#) by Lynda Jones
16. [The Woman Who Invented Weaving](#) by Christopher Davis, Jr
17. [Gary and the Great Inventors: It's Laundry Day!](#) by Akura Marshall
18. [Black Pioneers of Science and Invention](#) by Louis Haber
19. [Look What Brown Can Do!](#) by T. Marie Harris
20. [Have You Thanked an Inventor Today?](#) by Patrice McLaurin

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