

## Resources for Jennifer Swanson's FAST Conference STEM Talk

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### Types of Digital STEM Resources

- Videos that encourage exploration for students on their own
- Activities that they can do at home while watching the video to guide them
- Podcasts that will engage their curiosity and promote discussion

### Videos to use in the classroom or have students view independently

- Crash Course—You Tube Videos that describe/explain tons of different topics in a FUN kid-friendly way (anatomy, biology, chemistry, ecology, engineering, etc.)  
<https://thecrashcourse.com>
- Crash Course Kids! – 5th Grade Science (engineering, earth science, life science and physical science) <https://www.youtube.com/user/crashcoursekids/videos>
- NASA STEM Resources (space science, engineering, math)  
<https://www.nasa.gov/stem/forstudents/9-12/index.html>
- Shedd Aquarium's Sea Curious Videos  
<https://www.sheddaquarium.org/sea-curious>
- Smithsonian Institution—FUN for kids of all ages (history, art, science, activities and games, too) <https://www.si.edu/kids/>
- NASA's Jet Propulsion Lab – Engineering in the Classroom—For K – 12 (different grade levels have different topics but include Mars Rover, Space communication, Landing on different planets, etc.)  
<https://www.jpl.nasa.gov/edu/teach/resources/engineering-in-the-classroom.php>

### Experiments to do at home

- Bill Nye the Science Guy
- Emily's Wonder Lab (on Netflix)
- Science! Kids on PBS <https://www.pbs.org/show/science-kids/>
- Steve Spangler Science  
<https://www.stevespanglerscience.com/lab/categories/experiments/at-home-science/>

### Museums to Visit Virtually

- <https://www.tripsavvy.com/childrens-museums-virtual-visit-4800065>
- Glazer Children’s Museum
- Children’s Museum of South Dakota
- Boston Children’s Museum
- Kohl’s Children’s Museum
- Children’s Museum of Houston
- Chicago Children’s Museum

#### Podcasts that are Great for Teacher Tips/Resources

- Everyday STEM podcast and website by Chris Woods, a High School Math Teacher who is passionate about STEM  
His podcasts include interviews with teachers, STEM authors, and lots of daily STEM tips. [www.dailystem.com](http://www.dailystem.com) @dailystem on Twitter
- John Spencer, Former middle school science teacher, now professor  
Tips for Virtual Learning and Expanding your Digital Learning in Classrooms  
[www.spencerauthor.com](http://www.spencerauthor.com)

#### Podcasts to use in the classroom or as supplemental listening for students

- Brains On!® an award-winning audio show for kids and families.  
Each week, a different kid co-host joins Molly Bloom to find answers to fascinating questions about the world. [www.brainson.org](http://www.brainson.org)
- Tumble Science Podcast for Kids Exploring stories of science discovery. Tumble is a science podcast created to be enjoyed by the entire family.  
[www.sciencepodcastforkids.com](http://www.sciencepodcastforkids.com)
- Solve It! for Kids -- The science podcast for curious & creative kids and their families.  
Peek into the world of real-life scientists, engineers, and experts as they solve problems in their every day jobs. [www.solveitforkids.com](http://www.solveitforkids.com)
- Reading with your kids podcast – STEM Tuesday programs  
[www.readingwithyourkids.com](http://www.readingwithyourkids.com)

#### Podcasts Kids Can Create

- NASA Do-It-Yourself Podcast  
<https://www.nasa.gov/audience/foreducators/diypodcast/index.html#>
- Anchor (<https://anchor.fm/>) – you can create a podcast, edit, it and post it
- Podbean <https://podbean.com/>