

# Ideas for “The 100”

## Read for Extra-Curricular Hours

Every STEM student should participate in this offering!

Ms. Donahue, LHS Librarian, has developed a cool concept for STEM students to earn additional extra-curricular hours toward "The 100". She has created a compelling list of books from our library that have STEM-related topics...both fiction and non-fiction. You can read single books on this list, OR, even better, read several different books which belong to a "STEM Combo" and are all related to each other in terms of subject matter. For example, here's one of the "STEM Combos": Other combos will be created over time, and will be available for you to choose from by clicking this

<https://docs.google.com/document/d/1wgrHX1TG277U6Ju3ltJCh9h8SnhcAN5fnOGR5LtSF7M/edit>

Theme:

"The Internet, Society and You"

"Bluescreen: Book1" by Dan Wells

"It's Complicated - The Social Lives of networked Teens" by Danah Boyd

"The Shallows - What the Internet is Doing to Our Brains" by Nicholas Carr

"Social Media and the Secret Lives of Teenagers" by Nancy Jo Sales

Books will be assigned certain, specific hours values that you can earn by reading them. You won't earn the actual number of hours it takes you to read the books...but, this is a simple...and information rich...way to steadily be racking up hours...and broadening your STEM knowledge at the same time. After you've finished reading a book, or combo of books, Mrs. Rubey will ask you a few questions about the content. She'll then sign off on awarding you STEM hours.

If you're interested, please stop by the library and chat with the librarian

## **Tech Opportunities for Teens at Castlewood - FREE**

There are LOTS of great workshops coming up over the holidays at Castlewood Library. Everything from block printing to creating resin jewelry. Learn more and sign up here:

[https://arapahoelibraries.bibliocommons.com/events/search/fq=program:\(5cd5e2a239605023004b70c1\)?\\_ga=2.120211535.652357842.1574263620-743280053.1574263620](https://arapahoelibraries.bibliocommons.com/events/search/fq=program:(5cd5e2a239605023004b70c1)?_ga=2.120211535.652357842.1574263620-743280053.1574263620)

## **Like Programming and Computers?**

Check out [Programming Throwdown](#), a Podcast about everything behind the technology of coding to boardgames.

## **First Generation College Bound Student? Interested in Health Care? Check out this exciting program from CU Denver:**

[https://forms.ucdenver.edu/secure/cu\\_prehealth\\_scholars\\_application](https://forms.ucdenver.edu/secure/cu_prehealth_scholars_application)

## **Colorado Student Leaders Institute:**

Students participating in this program live on the CU Denver campus for a month in the summer, earn college credit, and can choose a STEM focus of study. Learn more and apply here:

<http://www.costudentleaders.org/>

## **Technology Student Association**

The very successful LHS Technology Student Association wants you!

TSA is a "thing" here at Littleton. So much so that we've taken 1st Place in the state competition 12 of the past 13 years! And we want new members, including you!

Everyone is welcome...even if you don't think of yourself as a "Techie"!

Events include:

- Video Production
- Architecture

- Children's Books
- Video Game Design
- Debate
- Fashion Design
- Software Development
- More!

## **Shades of Blue Free Engineering Workshops at LHS**

We are pleased to once again offer a series of FREE Engineering Workshops which will be held here at LHS on 10 Saturday mornings this fall and next spring. Time spent at these workshops will count toward "The 100".

What can you expect to learn?

- General overview of engineering
- Introductions to the full spectrum of Engineering Careers
- Educational requirements
- Personality and character necessities
- Hands-on applications of engineering principles
- The importance of STEM
- Do I want to be an engineer and/or scientist?

Instructors are from educational institutions, government agencies, military organizations, educational institutions and key corporations providing insight into the following engineering oriented fields

- Civil
- Mechanical, Electrical
- Architectural
- Computer Science
- Aviation
- Chemical
- Petroleum
- Systems
- Human Space Flight
- Rocketry
- Spacecraft
- Hydrology, Structures
- Construction

## **Amazing Video About Space Travel**

Watch this super interesting and amazing video series produced by Time Magazine called "A Year in Space", which details NASA astronaut Scott Kelly's experience living on the International Space Station. Time spent viewing this educational video counts toward "The 100".

Click [here](#) to begin viewing.

## **Denver Museum of Nature & Science**

Don't forget to constantly check the Denver Museum of Nature and Science website for programs and exhibitions that they offer. Their calendar is constantly changing and adding new, interesting, inspiring activities, films, exhibitions and classes on an amazing variety of STEM-related topics. Also, the museum has a long and rich history of taking on high school-aged student volunteers to assist with their many programs. Hours spent at the museum attending events, films, exhibitions or volunteering will count toward "The 100". Remember to download the "Verification Form" and have someone at the event sign off on it, providing their contact information. If you attend an

IMAX film, take a photo of your ticket stub and upload that to your Portfolio.

Questions?

Email Mrs. Bartlett ([HBartlettMogg@lps.k12.co.us](mailto:HBartlettMogg@lps.k12.co.us))

## **TEDED Talks - Short Videos for STEM Hours!**

You've probably heard of TED Talks? If not, you need to find out about them! Important, interesting, relevant short talks given by experts in a huge range of fields...many in STEM. Click [here](#) to connect to TEDed Talks...these are a special version of TED Talk directed toward students. Time spent viewing these TEDed Talks will count toward "The 100". Please provide the title of the talks you listen to on your Extracurricular Hours Spreadsheet.

## **FREE Smithsonian's "STEM in 30" Webcast Series**

The Smithsonian's National Air and Space Museum is presenting a series of free education webcast events called "STEM in 30." This new program consists of live, fast-paced 30-minute webcasts designed to increase interest and engagement in science, technology, engineering

and mathematics, or STEM, for students. To enhance the learning experience, students can get involved with the content through the interactive "Cover It Live" feature, including poll questions and classroom activities. The webcasts will be available live on the National Air and Space Museum website as well as on NASA TV, and will be archived for on-demand viewing. visit <http://airandspace.si.edu/explore-and-learn/stem-in-30/>

## **Interested in Space?**

[The Hubblecast Podcast](#) gives you all the latest news about astronomy, space, and the NASA/EVA Hubble Space Telescope. Listen for free and track your hours, share with Mrs. Bartlett.

## **Want to stay on the cutting edge of Science?**

Join host Steve Mirsky each week as he explores the latest developments in science and technology through interviews with leading scientists and journalists. [The Science Talk Podcast](#) is a great way to stay up to date and get hours.

## **Have an interest or prior experience with audio editing?**

Help [Colorado Talking Book Library](#) with their files and earn some hours while giving back!

## **Ready to Think Outside the Box with Math?**

Welcome to [Math Mutation](#), a podcast for people of all ages where we discuss fun, interesting, or just plain weird corners of mathematics that you would not have heard in school