

STEAM Newsletter

Ringwood Public Library
(973) 962-6256

STEAMing into

- S**cience
- T**echnology
- E**ngineering
- A**rts
- M**athematics

What's happening this month at the library...

NASA Ambassador Mike Greene speaks about the Gemini and Apollo missions: June 1 and July 20

Gadget Gals: June 8

3D Design: Ages 10+ up. Adults welcome, too! June 8 or 10

Code Speaker: June 17- **2 class times!**

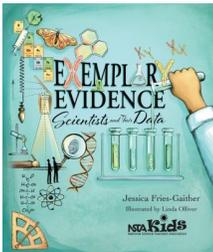
Universe of Stories Summer Reading Kickoff: June 25 - programs for all ages!

See our full schedule here.
Call the library to register!

THIS SUMMER: SPACE CAMP! Funded by the FRIENDS OF THE LIBRARY! -Register here!

August 19-23; 10:00-1:00. For tweens and teens 10+. Sign up early; space is limited!

Dovetailing with our **Universe of Stories** summer reading theme, this is a series of STEAM projects, including modelling the moon phases and the solar system, demonstrating gravity and weightlessness, debating the colonization of space, and using green screen and 3D design technology.

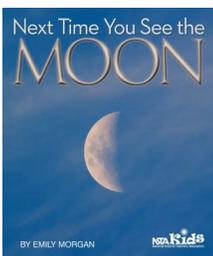


New at the Library!

Exemplary Evidence: Scientists and their Data

All about key scientists and their work in poetic form. Grades 3-8.

[Place on hold here.](#)



Next Time You See the Moon

Learn about why the moon appears differently every night. Grades K-5.

[Place on hold here.](#)

Have an astronaut read a picture book to you!
Go to <https://storytimefromspace.com/>



There's an app for that...

Star Chart Point it at the sky and it shows you a map of the stars and planets.

Free on iOS and Android.

Spotlight on Mae Jemison

She was the first African-American woman in space and in the NASA astronaut training program. As a physician and engineer, she studied weightlessness and motion sickness in space.

[Place a hold on the EZ Reader Biography here.](#)



If you have questions or suggestions for RPL's STEAM Newsletter, email caldwell@ringwoodlibrary.org.

Do you like to create games?

The Mind Research Institute is offering a K-12 Math Game Contest. Entries are due June 30.

Go to their website for more information:

<http://linkis.com/www.mindresearch.org/56x7W>

Or see the flyer [here](#).

What's New?

According to *Science Magazine's* research article summary, *The Nasa Twins Study: A multidimensional analysis of a year-long human spaceflight*, human health can be mostly sustained over long-term spaceflight. Researchers conducted a study of a pair of identical twins, in which one twin went on a full year space mission, while the other remained here on Earth. They compared various health-related measures in both twins, including genetics, physiology, immunology, cardiovascular, vision, and cognition. Most data showed that the space-trekking twin's health returned to normal soon after return from space. Other data showed changes that remained after 6 months back on Earth. These included changes in gene expression and damage to DNA, indicating that more research into the health safety of long-term space exploration is necessary.

Reference: Science 12April 2019 Vol 364 Issue 6436



Space Movies for the Whole Family:

October Sky (PG)

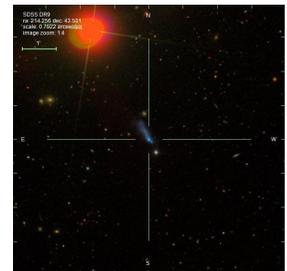
Hidden Figures (PG-13)

The Martian (PG-13)

Wall-E (G)

Looking into Deep Space

Go to NASA's spacetelescope.org to see what the Hubble telescope is looking at now!



Summer reading is coming: *Universe of Stories* is the theme!

Kick-off is June 25.

Here are some suggested readings to get you started:

Magazine Articles:

Discover Magazine: May 2019: *Einstein and 100 years of Relativity*; June 2019: *To the Moon and Back*. Use the [RB Digital App](#) and your library card to read *Discover Magazine* for free!

Muse Magazine: March 2019: *Bodies in Space*. Come in to the library to check it out!

Suggested books:

The Astronaut who Painted the Moon: The True Story of Alan Bean, by Dean Robbins (for grades K-3) [Place on hold here](#).

Hey There, Earth Dweller! by Marc ter Horst (for grades 2-7) [Place on hold here](#).

Who is Neil Armstrong? by Roberta Edwards (for grades 3-6) [Place on hold here](#).

The Girl who Named Pluto: The Story of Venetia Burney, by Alice McGinty (for pre-k –grade 3) [Place on hold here](#).

Light from Other Stars: A Novel, by Erika Swyler (for Adults) [Place on hold here](#).

Find more Universe of Stories resources
on our STEAM webpage!