S — Discover the Cosmos

Students will learn fascinating facts, including how much they would weigh if they lived on Jupiter and what causes craters on neighboring planets. Have you ever wondered about what causes craters?? Learn all this and other fascinating facts about our neighboring planets and discover why our solar system is so unique. *Thanks to the Fleet for presenting this program.*

T — Intergalactic Coding

Learn how computer programs are created and start coding your own. Students will learn basic computer programming and gain understanding of how our modern world works in this fun and exciting workshop. *Thanks to ThoughtSTEM for presenting this workshop.*

E — Ozobot Moon Adventure

Students will work in teams to rescue a space ship stranded on the surface of the moon due to a battery failure. Teams will develop codes using markers to guide a mini-robot, called an Ozobot that will retrieve supplies to for this hands-on outer space rescue. *Thanks to Microsoft for presenting this workshop.*

A — Build a Mars Colony

NASA plans to send astronauts to Mars in 2030s. In this program, students will investigate if humans can live on the red planet and what would they need to survive. Using recycled materials (cardboard, plastic cups, foam cups, water bottles, toilet paper rolls, paper towel rolls, LEGO pieces, drinking straws, etc.) students will design and build a Mars colony.
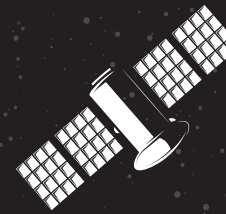
M — Glider Landing

Team up with real pilots, engineers, and technicians to learn about the principles of flight, then team up into squadrons and attempt to land your powered balsa wood glider on a replica aircraft carrier using design thinking, physics and flight testing. *Thanks to NAVAIR and Aero Ed for presenting this workshop.*

Build a Mars Colony · Intergalactic Coding · Stop for Science · Glider Landing · Ozobot Moon Adventure · Discover the Cosmos

Stop for Science!

Drop by any of the Library's 36 locations to "Stop for Science" to learn about what happens When Stars go Boom. This enrichment program consists of a series of posters with accompanying questions to introduce students to our incredibly large and fascinating universe. What is the sun? Do stars live forever? Get answers to these and more questions when you Stop for Science!
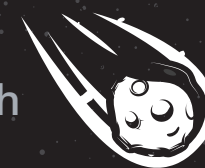
- **S**cience
- **T**echnology
- **E**ngineering
- **A**rts
- **M**ath

Partners:

AeroED Group — Flight: Inspiration for Learning — AeroED.org

FLEET SCIENCE CENTER

CHANDRA X-RAY OBSERVATORY

THOUGHTSTEM

San Diego Festival of SCIENCE & ENGINEERING — A PROGRAM OF BIOCOM INSTITUTE

Microsoft

UNIVERSE OF LEARNING

SD Public Library

330 Park Blvd. San Diego CA 92101 • 619-236-5800 • SanDiegoLibrary.org
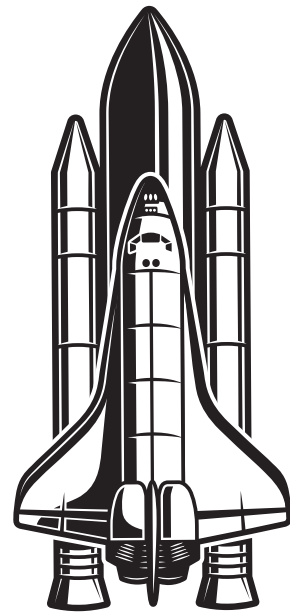
Spring into STEAM
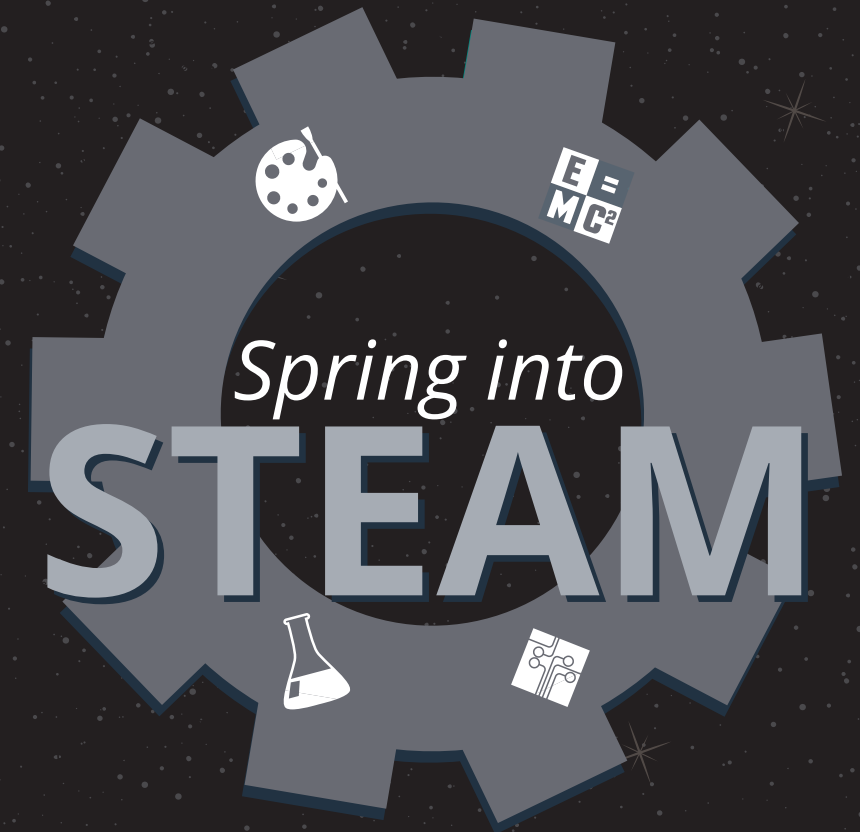
BLAST OFF!

March - May 2018

Name

BLAST OFF!

Into an Astronaut Training Program

This year's STEAM challenge includes 5 workshops and one poster challenge: complete each mission (in ANY order) and earn a star.

Earn all 6 stars and return your bookmark to your local library to claim your Citizen Scientist Award Medal!

All programs are geared towards ages 9-12 and require registration.

To register, visit: **sandiego.gov/steam** or stop by your local San Diego Public Library for more information!

Kick-Off Event
STEM in Your Backyard

Logan Heights Library
March 7 • 3:30 - 6:30 p.m.

presented by Biocom Institute

Mission One:
Glider Landing

March 10 • 11:30a.m. - 1p.m.
Kensington–Normal Hts Library

March 15 • 2:30 - 4p.m.
Point Loma/Hervey Library

March 19 • 4 - 5:30p.m.
Balboa Library

April 17 • 5 - 6:30p.m.
Oak Park Library

April 21 • 2 - 3:30p.m.
La Jolla/Riford Library

April 28 • 10:30a.m. - 12p.m.
Rancho Bernardo Library

Mission Two:
Build a Mars Colony

March 15 • 4 - 5p.m.
Tierrasanta Library

March 17 • 1 - 2p.m.
Linda Vista Library

March 22 • 3:30 - 4:30p.m.
Mission Hills Library

April 11• 6 - 7p.m.
Serra Mesa-Kearny Mesa Library

April 19 • 4 - 5 p.m.
North Park Library

April 25 • 4:30 - 5:30 p.m.
Skyline Hills Library

April 28 • 1 - 2 p.m.
Central Library

May 25 • 3:30 - 4:30 p.m.
Mira Mesa Library

Mission Three:
Ozobot Moon Adventure

March 8 • 3-5p.m.
Tierrasanta Library

March 17 • 10:30a.m. - 12:30p.m.
Ocean Beach Library

March 24 • 2 - 4p.m.
Central Library

March 28 • 3-5p.m.
Pacific Beach

April 3 • 3:30 - 5:30p.m.
Valencia Malcolm X

April 11 • 2 - 4p.m.
University Community Library

April 19 • 3:30 - 5:30p.m.
Mission Hills Library

May 1 • 4-6p.m.
Allied Gardens/Benjamin Library

May 9 • 3 - 5p.m.
City Heights/Weingart Library

May 12 • 1 - 3p.m.
San Carlos Library

Mission Four:
Intergalactic Coding

March 5 • 3:30-5:30p.m.
College-Rolando Library

March 8 • 10:30a.m.-12:30p.m.
Otay-Mesa Nestor

March 15 • 9:30-11:30a.m.
Mtn View/Beckwourth Library

March 24 • 3-5p.m.
Logan Heights Library

March 27 • 3:30 - 5:30p.m.
Valencia Park/Malcolm X Library

April 3 • 5 - 7p.m.
Mission Valley Library

April 14 • 11a.m. - 1p.m.
Paradise Hills Library

April 18 • 4 - 6p.m.
North Clairemont Library

April 24 • 6 - 8p.m.
Mira Mesa Library

Mission Five:
Discover the Cosmos

March 10 • Noon – 1p.m.
Clairemont Library

March 13 • 4:30 - 5:30p.m.
Carmel Mountain Library

March 17 • 10 - 11a.m.
Rancho Peñasquitos Library

March 24 • 2 - 3p.m.
North University Library

April 7 • 3 - 4p.m.
Logan Heights Library

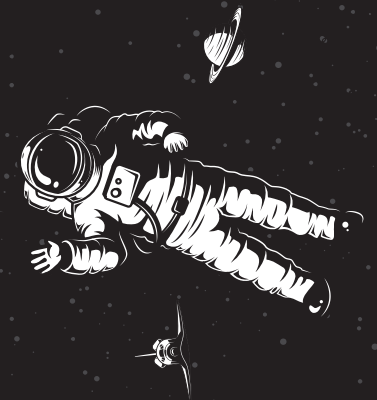April 19 • 4 - 5p.m.
Scripps Ranch Library

April 24 • 6 - 7p.m.
San Ysidro Library

April 25 • 4:30 - 5:30p.m.
University Heights

May 3 • 4 - 5p.m.
Carmel Valley Library

Spring into STEAM

ASTRONAUT TRAINING CHALLENGE