

Exploration HUB

what will you create?



February 2019

Photo Editing Digital Crafting Circuitry & Coding 3D Design & Printing

1775 Dove Lane (2nd floor)
Carlsbad, CA 92011
760-602-2038

www.carlsbadlibrary.org
librarian@carlsbadca.gov

Hours*

Monday – Thursday: 10 a.m. – 8 p.m.
Friday & Saturday: 10 a.m. – 4 p.m.
Sunday: 1 p.m. – 4 p.m.

*Exploration HUB is closed during classes shown on the calendar.

Register with your name, email address and valid Carlsbad City Library card at

www.carlsbadca.gov/hub

Classes for ages 13 and up unless otherwise indicated.

All classes in the Exploration HUB are free.



Class descriptions

Arduino – Beginning

Learn about this open-source platform used to build electronics projects. It consists of a programmable circuit board and computer software that is used to write and upload computer code to the physical board.

Arduino – Intermediate

Learn how to use LEDs, buzzers, motors, switches and more. We will choose a different project each week. Recommended prerequisite: Beginning Arduino

Arduino Club

Bring your Arduino or Raspberry Pi project to show off your skills or get help with selecting parts, creating circuits and debugging your project. All levels welcome.

Digital Conversion – Introduction: Audio & Video

Learn to convert your old VHS tapes, cassette tapes and 8 mm film to digital formats for sharing and saving to the cloud.

Experience Virtual Reality

Learn about different types of virtual reality. Bring your smartphone and receive a cardboard VR viewer to take home.

Photoshop Elements – Beginning

Learn to edit and improve photos using Photoshop Elements. Topics include Depth of Field and Introduction to Layers.

Photoshop Elements – Intermediate

We will demonstrate the use of layer masks which is an advanced technique that comes in very handy for things like replacing backgrounds and for applying changes to only portions of a photo. You can bring your own images on a USB flash drive. Please bring note-taking materials and prepare to have fun!

Photoshop Elements & Scanner Demonstration

If you're like most people, you have a stack of photos, slides and negatives you'd like to digitize and organize. Join us for this introductory class on using the Epson scanner to scan photos, slides, and negatives, followed by a demonstration of using Photoshop Elements to edit and enhance photos.

Raspberry Pi – Beginning

Learn the basics of using the popular Raspberry Pi computer. In this class, you will learn how to connect and get started with a Raspberry Pi computer as well as the basics of Linux operating system.

Silhouette Cameo – Beginning

The Silhouette Cameo cutter makes it easy to create intricate designs out of paper and vinyl. This class will teach you the basics of how to create your design and output it on the cutter.

Tinkercad – Beginning

Learn the basics of Tinkercad, an online tool to create 3D designs. Visit www.tinkercad.com to set up an account. Projects created in class will be 3D printed and ready to take home within one week.

Tinkercad – Intermediate

Continue to build your skills with 3D design and come to class ready to learn more intricate projects. Projects created in class will be 3D printed and ready to take home within one week. Recommended prerequisite: Beginning Tinkercad.

Calendar 

Exploration HUB Calendar February 2019

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1 Beginning Silhouette Cameo: Valentine's Day Card 10:30 a.m. – 12 p.m.	2 Family Beginning Arduino 10 – 11 a.m. Arduino Club 11 a.m. – 12 p.m.
3	4 Beginning Photoshop Elements: Black and White Photo Editing 10 – 11 a.m. Beginning Final Cut Pro 6 – 7 p.m.	5 Scanner and Photoshop Elements Demo 10 – 11 a.m. Family Beginning Silhouette Cameo: Cookie Box 6 – 7:30 p.m.	6 Tween Beginning Silhouette Cameo: Candy Jar 3:30 – 5 p.m. Beginning Tinkercad: Heart Locket 6 – 7:30 p.m.	7 Beginning Silhouette Cameo: Candy Jar 10 – 11:30 a.m.	8 Beginning Silhouette Cameo: Valentine's Day Pillowcase 10:30 a.m. – 12 p.m.	9 Beginning iMovie 10 – 11 a.m. Family Beginning Silhouette Cameo: Candy Jar 1:30 – 3 p.m.
10	11 Beginning Silhouette Cameo: Candy Jar 1:30 – 3 p.m. Intro to Digital Conversion: Audio & Video 6 – 7 p.m.	12 Beginning Photoshop Elements: Black and White Photo Editing 10 – 11 a.m. Family Beginning Silhouette Cameo: Valentine's Day Card 6 – 7:30 p.m.	13 Tween Beginning Silhouette Cameo: Valentine's Day Card 3:30 – 5 p.m. Beginning Tinkercad: Heart Locket 6 – 7:30 p.m.	14 Family Intro to Python on Raspberry Pi 6:30 – 7:30 p.m.	15 Beginning Tinkercad: Succulent Pot 10:30 a.m. – 12 p.m.	16 Experience VR Video 10 – 11 a.m.
17	18 Carlsbad City Libraries Closed for Holiday	19 Intermediate Photoshop Elements: Layer Masks 10 – 11:30 a.m. Beginning Tinkercad: Succulent Pot 6:30 – 8 p.m.	20 Tween Beginning Silhouette Cameo: Book Themed T-Shirt 3:30 – 5 p.m. Family Beginning Arduino 6-7 p.m.	21 Beginning Silhouette Cameo: Personalized Notebook 10 – 11:30 a.m.	22 Beginning iMovie 10:30 – 11:30 a.m.	23 Beginning Tinkercad: Heart Locket 10 – 11:30 a.m.. Family Beginning iMovie 2 – 3 p.m.
24	25 Scanner and Photoshop Elements Demo 10 – 11 a.m. Beginning Silhouette Cameo: Personalized Notebook 6:30 – 8 p.m.	26 Intermediate Photoshop Elements: Layer Masks 10 – 11:30 a.m. Intro to Digital Conversion: Audio & Video 6 – 7 p.m.	27 Tween Beginning Silhouette Cameo: Personalized Clipboard 3:30 – 5 p.m. Beginning Tinkercad: Succulent Pot 6 – 7:30 p.m.	28 Family Intermediate Arduino: LED Strips 6:30 – 7:30 p.m.		

- **Family classes** are designed to bring children and parents/guardians together in the HUB.
- **Tween classes** are for children ages 9 – 14 in grades 4 – 8 to collaborate with their peers in the HUB.
- **Teen classes** are for ages 13 – 19 to explore, learn, and engage with technology.

All other classes are for ages 13 and up.

A valid Carlsbad City Library card with internet privileges is required to use the HUB.

