



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

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

[www.carlsbadlibrary.org](http://www.carlsbadlibrary.org)  
[librarian@carlsbadca.gov](mailto: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](http://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 techniques for retouching portraits. Included will be: blemish removal, wrinkle reduction and adjusting facial features (including eyes, lips, nose and shape of head). 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](http://www.tinkercad.com) to set up an account. Projects created in class will be 3D printed and ready to take home within one week.

# Exploration HUB Calendar January 2019

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		<b>1</b> Carlsbad City Libraries Closed for Holiday	<b>2</b> Scanner and Photoshop Elements Demo 10 – 11 a.m.	<b>3</b> Beginning Silhouette Cameo: Wood Drink Coaster 10 – 11:30 a.m.  Intro to Digital Conversion: Audio & Video 6 – 7 p.m.	<b>4</b> Beginning Silhouette Cameo: Personalized Notebook 10:30 a.m. – 12 p.m.	<b>5</b> Family Beginning Arduino 10 – 11 a.m.  Arduino Club 11 a.m. – 12 p.m.  Beginning Final Cut Pro 2 – 3 p.m.
<b>6</b>	<b>7</b> Beginning Tinkercad: Pencil Holder 10 – 11:30 a.m.  Beginning Silhouette Cameo: Coffee Mug 6:30 – 8 p.m.	<b>8</b> Beginning Silhouette Cameo: Snowflake Banner 1:30 – 3 p.m.  Family Beginning Tinkercad: Pencil Holder 6 – 7:30 p.m.	<b>9</b> Beginning Photoshop Elements: Fun Edits 10 – 11 a.m.  Tween Beginning Silhouette Cameo: Book Themed T-Shirt 3:30 – 5 p.m.	<b>10</b> Family Intermediate Arduino: Temperature Sensor 6:30 – 7:30 p.m.	<b>11</b> Beginning Silhouette Cameo: Wine Glass 10:30 a.m. – 12 p.m.	<b>12</b> Experience VR Video 10 – 11 a.m.  Family Beginning iMovie 2 – 3 p.m.
<b>13</b>	<b>14</b> Beginning Silhouette Cameo: Drink Koozie 1:30 – 3 p.m.  Family Beginning Silhouette Cameo: Book Themed T-Shirt 6 – 7:30 p.m.	<b>15</b> Intermediate Photoshop Elements: Portrait Retouching 10 – 11:30 a.m.	<b>16</b> Tween Beginning Silhouette Cameo: Book Themed T-Shirt 3:30 – 5 p.m.	<b>17</b> Beginning Raspberry Pi: Intro to Circuits with Python 6:30 – 7:30 p.m.	<b>18</b> Beginning Tinkercad: Pencil Holder 10:30 a.m. – 12 p.m.	<b>19</b> Family Beginning Tinkercad: Chess Piece 10 – 11:30 a.m.
<b>20</b>	<b>21</b> Carlsbad City Libraries Closed for Holiday	<b>22</b> Intermediate Photoshop Elements: Portrait Retouching 10 – 11:30 a.m.  Beginning Silhouette Cameo: Drink Koozie 6:30 – 8 p.m.	<b>23</b> Beginning Silhouette Cameo: Super Bowl T-Shirt 6:30 – 8 p.m.	<b>24</b> Beginning Silhouette Cameo: Jewelry Dish 10 – 11:30 a.m.	<b>25</b> Beginning Silhouette Cameo: Candle Holder 10:30 a.m. – 12 p.m.	<b>26</b> Intro to Digital Conversion: Audio & Video 10 – 11 a.m.  Family Beginning Silhouette Cameo: Super Bowl T-Shirt 2 – 3:30 p.m.
<b>27</b>	<b>28</b> Beginning Photoshop Elements: Introduction to Layers 10 – 11 a.m.  Beginning Tinkercad: Chess Piece 6:30 – 7 p.m.	<b>29</b> Tween Beginning Tinkercad: Pencil Holder 3:30 – 5 p.m.  Beginning Final Cut Pro 6:30 – 7:30 p.m.	<b>30</b> Scanner and Photoshop Elements Demo 10 – 11 a.m.	<b>31</b> Beginning Silhouette Cameo: Valentine's Day Banner 10 – 11:30 a.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.

