

# Summer Break Activities

Learning for Life - For Boys & Girls grades 1<sup>st</sup> +!



## Summer Break Activities

All classes will be at the \*\* Long Beach Sea Base and Aquatics Center \*\* 5875 Appian Way, Long Beach. \*\*

Weeks	Monday	Tuesday	Wednesday	Thursday	Friday
July 21 <sup>st</sup> to 25 <sup>th</sup>		Game Design & Merit Badge 6-8:30 PM			
July 28 <sup>th</sup> to Aug 1 <sup>st</sup>		Game Design & Merit Badge 6-8:30 PM			
Aug 4 <sup>th</sup> - 8 <sup>th</sup>		Game Design & Merit Badge 6-8:30 PM			
Aug 11 <sup>th</sup> - 15 <sup>th</sup>		Game Design & Merit Badge 6-8:30 PM			
Aug 18 <sup>th</sup> - 22 <sup>nd</sup> AM	Week long Game Design & Merit Badge 9 – 11:45				
Aug 18 <sup>th</sup> - 22 <sup>nd</sup> PM	Karakuri (Paper Automata) & Electronic Moving Displays 1 – 3:30				
Aug 18 <sup>th</sup> -19 <sup>th</sup> All day	3D Photography & Video 9 AM – 3 PM				
Aug 18 <sup>th</sup> - 20 <sup>th</sup> AM	Radical Robotics VEX One (Shared Science) 9:15 – 11:15				
Aug 18 <sup>th</sup> - 21 <sup>st</sup> AM	Leonardo Says Duh! (Shared Science) 9:15 - Noon				
Aug 25 <sup>th</sup> - 29 <sup>th</sup> AM	2D Computer Based Game Development with Unity 9-11:45				
Aug 25 <sup>th</sup> - 29 <sup>th</sup> PM	Computer Game Lab 1 – 3:30				
Sep 2 <sup>nd</sup> All Day	DIY Club All Day 9 AM – 3:30 PM				

## Summer Break Activities (See class descriptions for age restrictions)

**Summer Evening Game Design Club and Merit Badge Grades 3+ \$109 4 Tuesdays July 22<sup>nd</sup>, 29<sup>th</sup>, August 5<sup>th</sup>, 12<sup>th</sup> Class 6-8:30 PM.** Learn about design of games: dice, board, card games and discuss game engines. Includes a preliminary look at game engines. Note: This is not a computer based game development class. It is intended to take the youth through the thought processes involved in designing a game. Participants who are Boy Scouts will make progress towards the Game Design Merit Badge.

**LEONARDO SAYS DUH! With Shared Science Grades 1-5 \$125 August 18-21, Monday-Thursday, 9:15 a.m. – noon.** Constructors explore Da Vinci contraptions, using cues from nature to guide builds for walking, flying, rolling and more! A LEGO Brick-Plus class, with LEGO as well as other fun build activities.

## **Summer Break Activities (See class descriptions for age restrictions)**

**Radical Robotics VEX One With Shared Science** Grades 4-8 \$125 August 18-20, Monday-Wednesday, 9:15a.m. – 11:15a.m. Programming basics with VEX hardware robots and RobotC.

**Game Design and Merit Badge** Grades 3+ \$159 August 18<sup>th</sup> - 22<sup>nd</sup> 9 AM – 11:45 AM. See description for Summer Evening Game Design Club and Merit Badge.

**Karakuri (Paper Automata) and Electronic Moving Displays** Grades 3+ \$159 August 18<sup>th</sup> - 22<sup>nd</sup> 1:00 PM – 3:30 PM  
Two PMs working on kinetic paper sculptures, then learn just enough about electricity and electronics to make kinetic creations. Work on something to take home and learn skills to get started on your Halloween costume and moving display. Perform exercises with LEDs, buzzers, motors & sensors using the Arduino, then put it all into play in your own lit up and/or motorized creation. Includes take home Arduino, servo motor and other electronic components & use of a Sparkfun Electronics Kit during classes.

**3D Photography and Video Editing** Grades 3+ Price \$109 August 18<sup>th</sup> & 19<sup>th</sup> (to be confirmed) 9 AM – 3 PM. Work with 3D photographer and author Barry Rothstein who will share techniques in 3D photography in these two full days of 3D then learn how to edit the photos to make awesome pop up phantograms and 3D video sequences.

**2D Game Development with Unity** Grades 3+ \$159 August 25<sup>th</sup> - 29<sup>th</sup> 9 AM – 11:45 AM. Computer based 2D game development with the Unity engine. Participants who are Boy Scouts will make progress towards the Game Design Merit Badge

**Game Lab** Grades 3+ \$60 August 25<sup>th</sup> - 28<sup>th</sup> (4 days) 1:00 PM – 3:30 PM. Self-driven open lab time if you have taken the Game Design or Game Development classes with us. Work on your game design, your game characters or your game in Unity during this mentored community time. \*Instructor presence is at their discretion.

**Just added: DIY Club All Day** \$45 September 2<sup>nd</sup> 9:00 AM – 3:30 PM. \$45. Includes equipment and materials. (Facility opens 8:30 and closes at 4:00 unless additional hours are requested.)  
We'll work with LEGO Techniques, build the American Flag in LEGO Bricks, talk about Eagles, learn how to make a Minecraft skin, and yes, even play Minecraft! A little...

### **Registration Form**

<b>Parent Name:</b>	<b>Child:</b>	<b>Phone:</b>
<b>Parent Email:</b>	<b>Address:</b>	
<b>Class (please return by June 13th)</b>	<b>Cost</b>	<b>My Cost</b>
Summer Eve Game Design & Merit Badge	\$109.00	
LEONARDO SAYS DUH!	\$125.00	
Radical Robotics VEX One	\$125.00	
Game Design and Merit Badge	\$159.00	
Karakuri (Paper Automata)/Electronic Moving Displays	\$159.00	
3D Photography and 3D Video Editing	\$109.00	
2D Game Development with Unity	\$159.00	
Game Lab	\$60.00	
DIY Club all Day	\$45.00	
<b>Total Enclosed:</b>		

Checks should be made payable to Long Beach BSA for A/C 1680134420 and mailed or hand delivered to: **401 E. 37th Street, Long Beach, CA 90807**. Credit card payment call 562-427-0911 x230. More info on program, call Trish 562-225-9589 or email [handmadepenguin@yahoo.com](mailto:handmadepenguin@yahoo.com). register your email at: <http://makersville.net/contact/>