

R and D Lab

Block 6 May - June 2018

Introduction - You will be assigned technology to explore and learn how to use. You will need to figure it out, I am not here to teach it to you. Bring your ipad to class - take pictures of your work each day. Take notes in your R and D journal

Description	Tools to use and explore	Outcome	Assigned Students
Virtual and Augmented Reality	Tools Patches VR Metaverse VR Tale Blazer AR Cospaces VR Aurasma app 360 degree camera VR Headset Computer iPad or Ipod Touch	Create prototype VR or AR experiences to learn and show others. Create a guide to show others how you did it.	2-3 students
Robotics	Sphero Tickle app Lego Mindstorms Alternative energy Kit, MBot, Others	Create several robotics demonstrations to learn and show others how the robots work and what they can do.	2-3 students

	Computer, iPad, others	Create a guide to show others how you did it.	
3D printer filament recycling and laser cutting Based on Instructable: Plastic Smoothie	Toaster oven Filament scraps Aluminum foil Corel Draw Laser cutter	Create sheets of plastic and use the laser cutter to create either functional or artistic products. Create a guide to show others how you did it.	2-3 students
Micro Vehicle	Motors, wire batteries, gears, switch 3d Printing, misc junk, other	Working prototype vehicle Create a guide to show others how you did it.	2-3 students
VLC Media Player Push content to GEMS TV Clients or work on another solution. https://www.wikihow.com/Use-VLC-to-Stream-Audio-and-Video-to-Multiple-Computers-on-Your-Network-Using-Multicast	Computers, VLC Media Player, other	Create a working instance or demonstration Create a guide to show others how you did it.	1 or 2 students

Programmable innovation lab lighting Tinkle app Philips hue programmable bulbs	Tickle App Philips Hue App Philips Hue smart light bulb Philips Bloom Light	Create a guide to show others how you did it.	1 Student

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