RASE

REED AFTER-SCHOOL ENRICHMENT 2016-2017 – SESSION 1

CLASS DESCRIPTIONS – One hour classes, unless otherwise stated & all grades welcome.
Session 1: Aug 29 to Oct 31 * Session 2: Oct 31 – Dec * Session 3: Jan to March * Session 4: April to May, 2017

MINECRAFT – **Mondays, 8 classes, (Aug 29, (No Class Sept 5,) Sept 12, 19, 26, (No class Oct 3,) Oct 10, 17, 24, 31 – Rm. Lab 218 - Max # students: 24 / Min 8.** Kids love to play Minecraft nowadays. This class combines their Minecraft skills and strategy to teach them some programming. We will use the LUA language to create programs used by "Turtles" in Minecraft. The course introduces students to Linear Thinking, basic programming operations, "If... then..." statements, "While..." and "For..." loops and skills of craft logic unfold. They also learn how to write out truth tables, engage with problem solving, thinking mathematically and using logic and reasoning. After basic coding skills, we participate in a class tournament each week starting week 4. Playing Minecraft can be meaningful and educational! – By ComputerWiseKids.

AFTER SCHOOL GOURMET – **Tuesdays, 8 classes, (Aug 30, Sept 6, 13, 20, 27, Oct 4, 11, 18) - Rm 116 - Max # students: 30.** Come learn the tricks of a Chef, as instructor Chef Chris Allen and his Le Cordon Bleu-trained staff come to Walter Reed for cooking fun. This culinary team will give students a hands-on approach in creating in the kitchen while they learn some easy and delicious dishes from around the world. Menu includes Ratatouille, Bruschetta, Fettuccine Alfredo, Chocolate creations, Baklava, Hummus and more. – Chef Chris Allen

PUBLIC SPEAKING, DEBATE AND MOCK TRIAL , **(Aug 30, Sept 6, 13, 20, 27, Oct 4, 11, 18) – Rm 137 - Max # students: 24.** A POPULAR class! Are you a person of passion and conviction, with a love for critical thinking and dialogue? In this class, students learn to use logic and other rhetorical tools to support their positions and to express themselves succinctly and skillfully. Students learn to walk and talk with assuredness and purpose, overcome jitters, and deliver speeches with confidence and animation! - By Parker Anderson.

KUDO KART RACING AND VIDEO GAME DESIGN – **Wednesdays, 8 classes, (Aug 31, Sept 7, 14, 21, 28, Oct 5, (No class Oct 12,) 19, 26) – Rm 135 – Max students 20 / Min 8.** Race to the finish and create your own racing game in Microsoft's Kodu gaming environment. From terrain design to enemy selection, students are placed at the wheel and given full control to design their own video game while exploring the foundations of coding. Kick your creativity into high gear with Kodu Kart Racing! (PLEASE NOTE: Not compatible with Mac or Linux.) https://www.youtube.com/watch?v=UgkcF1C6jpM - By Engineering For Kids
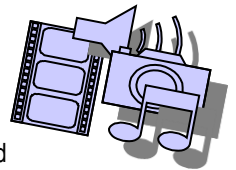
MUSICAL THEATRE – **Wednesdays, 8 classes, (Aug 31, Sept 7, 14, 21, 28, Oct 5, (No class Oct 12,) 19, 26) – 2nd Floor Above Girl's Gym – Max students 20 / Min 8.** Here's a class for beginner and experience performers, whether you are Broadway bound or you just love show tunes. Students will experience musical theatre and will explore acting, singing, movement for the stage, audition techniques, and character development, drawing from popular musicals. – Ms. Kim Steury

ANIME, CARTOONING & COMIC BOOK CREATION – **Thursdays, 8 classes (Sept 1, 8, 15, 22, 29, Oct 6, 13, 20) - Rm 132 - Max # of students: 20 / Min 8.** Cartooning is a great way to learn how to sketch and draw. Learn to create your own characters as well as popular characters from Disney, Anime, and more! Learn about storylines, design, coloring, and lettering, as you create your very own comic book! By Parker-Anderson.

FILMMAKING: SCRIPT, LIGHTS, CAMERA, ACTION – **Thursdays, 8 classes (Sept 1, 8, 15, 22, 29, Oct 6, 13, 20) – Rm 160/151- Max # students: 24 / Min. 6.** Mr. Don Helverson will teach storyboarding and the basics of filmmaking. We will create a short movie together in class. Everyone leaves the workshop with a short video they have written, directed, and edited. Materials needed: your own iPhone, iPad or Smart Phone or tablet. PLEASE NOTE: We have limited number of school video cams available. NO FOOD OR DRINKS IN ROOM 151 PLEASE! - Mr. Don Helverson

ROBOTICS WITH RASPERRY PI – **Fridays, 8 classes, (Start class Sept 9, 16, 23, 30, Oct 7, 14, 21, 28,) – Rm 170 – Max # students: 24 / Min 8.** This class introduces students to Robotics via the Raspberry Pi, using the PiGlow and Pibrella shields. This is the first course of its kind. No one teaches the fundamentals of Robotics like we do. The Raspberry Pi is a compact, powerful computer that is small enough to fit on portable platforms. Students develop, build and program using the Raspberry Pi and will work hands-on in teams of 2-3 to complete a set of increasingly complex builds. Code basics and logic are taught with Scratch and Python and students use the Raspberry Pi to interact with external modules using the GPIO interface. The PiGlow external module provides 18 individually controllable LEDs. Students will identify and program the LEDs to create their own customized light patterns. Students can create cool light displays that express their skills with code and logic. - By Computerwisekids.

PROGRAMMING WITH PYTHON, KIDS CAN CODE – **Fridays, 8 classes, (Start class Sept 9, 16, 23, 30, Oct 7, 14, 21, 28,) – Rm 151 – Max # students: 20 / Min 9.** This is our core program, introducing the idea of a programming language and what it means to tell a computer what to do. Learning to code is about learning how technology works. We'll cover basic interaction with the Python console using statements to manipulate numbers and text. Next, we'll move on to Turtles - creating our own graphics and introducing loops and functions. Finally, we'll create some games and animations to round out the lesson. Throughout the class, students will learn not just the code, but the *why* behind the code, setting a strong foundation for future growth. More information: KidsCanCode.org. *No previous experience is required.* - By Kids Can Code