LAS *summer* Course Descriptions

PLAN AND CREATE COURSES

COURSE	COURSE DESCRIPTION: AGES 10-13	COURSE DESCRIPTION: AGES 14-17
Business Brains *Key Subjects:* *Math.* *Entrepreneurship.* *Business Planning.*	Do you dream of starting a successful business in the future? Whether you want to design a clothing line, create a new product, or open a restaurant, you'll learn what it takes to develop a mind for business. We will explore important elements of business, from planning to funding to marketing. We will then work in teams to develop new business ideas and plans that we'll 'pitch' to our classmates.	What are the secrets of successful entrepreneurs? In this class, we will look at some of the most famous entrepreneurs in history to better understand important skills, habits, and actions needed to be successful. You will also learn fundamentals of good business, including strategy, marketing, management, and finances. Our study will culminate in a hands-on project where you will develop a unique concept and build your very own business proposal.
Chemical Cooking *Key Subjects:* *Food Science.* *Chemistry. Math.* *Culinary Skills.*	Let's play with our food! In this class, you will learn the foundations of chemistry through cooking. What are the properties of the food we eat, and what chemical reactions do they create? Activities may include determining the freezing point of ice cream, calculating the perfect rise of a cookie or cake, crafting edible water and juice balloons, and cooking molecular fruit spaghetti.	You are what you eat! In this class, we will look at the physical properties and composition of food. By examining proteins, carbohydrates, fats, and water, we will uncover the chemical reactions food undergoes when it is processed, cooked, and stored. Through a series of small experiments, we will also learn about the chemistry of preservatives and additives. Finally, we will explore the impact of taste and smell through an introduction to flavor chemistry.

Mad Scientists and Inventors *<u>Key Subjects:</u>* *Science.* *Technology.* *Engineering.* *Math. Design. Art.*	What do you need to do in order to become a mad scientist or inventor? Play! Enter our makerspace classroom where you will experiment with 3D printing, robotics, engineering, art, and design. You'll tinker and work with your fellow classmates to create innovative projects which will be showcased in our very own science fair.	Transform into a mad scientist and inventor! In this class, we will all become makers who use our creativity and curiosity to build the projects of our dreams. Explore your interests in 3D printing, robotics, design, and art in our makerspace classroom where you'll imagine, play, and tinker. At the end of this class, you and your classmates will demonstrate your final projects in an interactive science fair.
Reality Check! *<u>Key Subjects:</u>* *Journalism.* *Communications.* *Media Studies.*	Don't believe everything you read! In this class, you'll look at the role media plays in spreading information and learn how to distinguish between real and fake news. We will also transform into reporters, as we study the fundamentals of journalism, from researching to interviewing to fact-checking. You and your classmates will use your skills to become campus reporters who find and write media stories of your very own.	Information is just a click away, but is the information always true? In this class, we'll examine the powerful role media plays in our lives, as well as the importance of distinguishing fact from fiction. We will also study the fundamentals of investigative journalism and learn how to research and report with accuracy. Final projects will give you the opportunity to investigate your own topic and to write and record the story you uncover.

DISCOVER AND INVESTIGATE COURSES

COURSE	COURSE DESCRIPTION: AGES 10-13	COURSE DESCRIPTION: AGES 14-17
Days that Changed the World *Key Subjects:* *Social Studies.*	The most important events in history begin with a single day—the start of a war, the end of a life, the discovery of something new. Let's look closely at the days that changed the world. In this class, we will investigate memorable moments in history to discover their causes and effects. You will also research a day that you believe changed the world, and it will be your job to show us how and why.	*"Just one moment can change everything."* History is a collection of important moments that have changed the world—from 9/11 to the first man on the moon to the invention of the printing press. In this class, we will study memorable days in history. What caused these moments to take place, and what effect did they have on the future? What would the world look without that single day?
Discovering Space *Key Subjects:* *Astronomy.* *Math.* *Meteorology.*	3-2-1 blast off! Take a trip to space to learn about the mysteries of the universe. In this class, we'll determine if there is life on Mars, measure objects in the night sky, and discover what scientists actually do in space. Other activities may include learning how to construct a space station, train like an astronaut, and build a comet.	Is there life on Mars? Will an asteroid hit earth? Why can nothing escape a black hole? In this class, we will investigate important questions and mysteries of the universe. Through a series of games, activities, and mini projects, you will have the opportunity to explore the solar system, measure objects in the night sky, and use satellite images to discover the geography and sustainability of Mars.

Myths and Legends *<u>Key Subjects:</u>* *History. Cultural Studies. Creative Writing.*	Enter the world of heroes, princesses, magic, talking animals, and monsters. In this class, we will look at some of the most famous myths and legends from history. Why are these stories so important and why have they been told for so long? What do myths and legends teach us about culture and tradition? As part of a final project, you'll discover and share stories from your own country.	From heroes to goddesses to talking animals, myths and legends have been used throughout history to explain the world around us. In this class, we will look at famous myths, legends, folktales, and fairytales to discover the connections between these stories and the cultures and traditions they represent. You'll also have the chance to look at stories from your home country and to create and publish a myth or legend of your own.
The Science of Olympic Athletes *<u>Key Subjects:</u>* *Math. Physics. Anatomy. Health and Nutrition.*	Jump higher. Run faster. Throw harder. In this class, we will investigate the science behind Olympic athletes and their incredible strength, abilities, and accomplishments. Using a combination of math, physics, anatomy, and diet/nutrition, we will determine what it takes for an athlete to prepare for the Olympic Games and to give record-breaking performances.	What does it take to become an Olympic athlete? In this class, we will investigate the components of Olympic performance, from anatomy and physiology to nutrition and training regimens. You will also have the opportunity to look closely at great Olympic moments and uncover the science behind the speed, the strength, and the record-breaking feats.