**DiscoveRE**  
June 17 – July 26  
8:30 a.m. – 4:30 p.m.  
$900 per two week session  
The DiscoveRE Program offers a combination of academics and fun for rising sixth graders. Students attend a Math and English class in the morning and then join RE’s Summer Camp for the rest of the day.  
English classes include reading, reading comprehension skills, grammar, vocabulary and experiences with the writing process. Math classes include numbers operations, fractions, equation solving and word problems. Students are given grades and receive written comments for their academic work. Students can enroll in two-, four- or six-week sessions. Students enrolling in the DiscoveRE program must register using the summer camp portal.

**Algebra II**  
June 10 – July 19  
8:00 a.m. – 12:00 p.m.  
$2,800  
Prerequisite: Algebra I; students must receive permission from Jean Duty, Math Department Chair, for entry into this course (305.460.8219). Covers Algebra II topics including radicals, irrational and complex numbers, quadratic equations, functions, relations, systems, exponential and trigonometric functions, and logarithms. This course counts for credit at Ransom Everglades. Arrangements must be made with the student’s regular school, in advance of course starting, for credit to be granted elsewhere.

**Algebra I**  
June 10 – July 19  
8:00 a.m. – 12:00 p.m.  
$2,800  
Students must receive permission from Jean Duty, Math Department Chair, for entry into this course (305.460.8219).

**Chemistry: Summer Fast-Track**  
June 10 – July 19  
8:00 a.m. – 12:00 p.m.  
$2,800  
The course provides an opportunity for rising sophomores with a passion for science and an interest in taking AP Chemistry their sophomore year to gain an expedited exposure to foundational concepts in chemistry. Performance in the course will be used as the basis for placement. This course requires that students have a strong comfort level with algebra as well as critical thinking skills. Students will perform
laboratory experiments to get hands-on experience and develop laboratory skills. Assessments include written exams, quizzes and lab practicals.

Meeting for five days per week, four hours per day, for six weeks, the course will provide a semester’s worth of material. Selected topics from both first- and second-semesters of an honors curriculum will be covered, albeit in less depth. The path of the course is roughly as follows: dimensional analysis; atomic structure; atomic mass and the mole concept; chemical bonding and nomenclature; introduction to types of reactions and stoichiometry; properties of gases, and introduction to thermodynamics and chemical equilibria.

Students develop a basic understanding of the structure of atom and types of chemical bonds. They develop the following skills: balancing chemical equations and solving stoichiometric problems; recognizing reaction types; understanding the behavior of gases; and solving problems involving chemical equilibria. In lab, they will learn basic laboratory safety, learn how to measure quantities using glassware and instruments; learn how to prepare solutions; learn how to carry out chemical reactions and relate observations to chemical equations; learn how to analyze sources of experimental error; as well as other skills.

Students will be assigned homework that may include readings and worksheets. Students will be assessed through quizzes, exams, and laboratory write-ups.

**¡Más Español!**
July 1 – 12; July 15-26
9:00 a.m. – 12:00 p.m.
$500

This course will be offered to further enhance students' speaking, listening, and writing abilities in Spanish. We will review a variety of vocabulary terms and expressions, reflexive and object pronouns, and several verb tenses so that the students will be more prepared to narrate events in the present, past, and future. The course will include many fun activities that encompass the topic of the day and at the end of the course, the students will have materials and handouts to help them successfully transition to the next level of Spanish at the Upper School.

**Art Appreciation**
July 1-12
9:00 a.m. – 12:00 p.m.
$500

This course is a study of the visual arts designed to teach artistic awareness by examining a variety of styles from various periods and cultures. Emphasis is placed on the development of a universal language in order to assess, discuss, and enjoy works of art. These selections are drawn from diverse media such as architecture, sculpture, painting, printmaking, and photography.

Expectations:
1. To encourage students to cultivate their own personal sense of criteria and aesthetics.
2. To enable students to readily interpret symbolism and iconography
3. To engender a continuing appreciation of the creative and expressive nature of the visual arts, while also employing an equal degree of research and contextual analysis of this discipline.
4. To establish a discipline-specific vocabulary and establish a historical chronology of the subject matter.
5. To reveal how the arts are shaped through interdisciplinary considerations (i.e. geography, history, superstition, comparative religions, science, anthropology, archaeology, sociology, philosophy and literary sources).
Competitive Robotics Workshop  
July 1 - 12  
12:30 p.m. - 3:30 p.m.  
$500  
Students will explore engineering through the innovative field of robotics. This two week long course gives competitive robotics students a head start on the 2018 – 2019 VEX IQ or VEX Robotics competition. Students will finish documented prototypes and begin skills practice, strategy, and optimization to be used throughout the competition season. Students will explore engineering design principles, computer aided design, sensors, autonomous behaviors, and smart driver control. Students must have a serious commitment and passion for robotics competition.

PADI Open Water Diver  
June 7-9; June 10-12; July 10-12 (three different sessions)  
9:00 a.m. - 5:00 p.m.  
$675  
If you've always wanted to take scuba diving lessons, experience unparalleled adventure and see the world beneath the waves, this is where it starts. Get your scuba diving certification with the PADI® Open Water Diver course – the world’s most popular and widely recognized scuba certification course. Millions of people have learned to scuba dive and gone on to discover the wonders of the aquatic world through this course. To enroll in a PADI Open Water Diver course (or Junior Open Water Diver course), you must be 12 years old or older. You need adequate swimming skills and need to be in good physical health. No prior experience with scuba diving is required. All RE SCUBA students (and parents) are required to attend an orientation meeting with Dr. Jackson to review/sign paperwork and receive course materials prior to starting any class.

PADI Advanced Open Water Diver  
July 13/20; July 19-20  
$500  
This course can be taken after completing the PADI Open Water Diver certification. It's titled PADI Advanced Open Water Diver because it advances your diving knowledge & skills. You don’t have to be “advanced” to take it – it’s designed to advance your diving, so you can start right after earning your PADI Open Water Diver certification. The course helps build confidence and expand your scuba skills through different Adventure Dives. You try out different specialties while gaining experience under the supervision of your PADI Instructor. You log dives and develop capabilities as you find new ways to have fun scuba diving. All RE SCUBA students (and parents) are required to attend an orientation meeting with Dr. Jackson to review/sign paperwork and receive course materials prior to starting any class.

PADI Enriched Air Diver Specialty Certification  
June 5; July 17; July 18  
4:30 p.m.-7:30 p.m.; 4:30 p.m.-7:30 p.m.; 10:00 a.m.-1:00 p.m. (respectively)  
$150  
The PADI Enriched Air Diver course is PADI’s most popular specialty scuba course. Why? Because scuba diving with enriched air nitrox gives you more no decompression time, especially on repetitive scuba dives. If staying down longer and getting back in the water sooner sounds appealing, then don’t hesitate to become an enriched air diver. All RE SCUBA students (and parents) are required to attend an orientation meeting with Dr. Jackson to review/sign paperwork and receive course materials prior to starting any class.