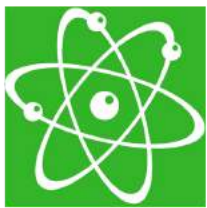


St. James

CATHEDRAL SCHOOL

S R E A M



Science



Technology



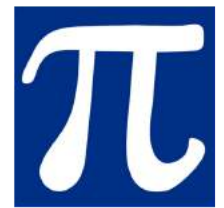
Religion



Engineering



Art

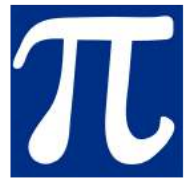


Math

EDUCATION

Academic excellence and spiritual enrichment since 1928

505 E. Ridgewood St. Orlando, FL 32803
ph: 407-841-4432 ■ fx: 407-648-4603 ■ stjcs.com



ST. JAMES IS STREAMING THEIR EDUCATION

The Middle School at St. James Cathedral School is no longer “Wheeling”, we are STREAMing! Our STREAM programs integrate an inquiry-based, hands-on curriculum that more closely aligns with what students will experience in higher grade levels, college and in the workforce. We are building up our 21st century learners with STREAM!

Starting on August 30th, middle school students will spend one period a week in a STREAM class focus area. These classes will be held every Wednesday and will rotate each trimester throughout the 2017-2018 school year.



STREAM classes will be assigned to students in grade 6. These classes will introduce the STREAM curriculum and provide our 6th graders a broad overview of these exciting programs.



Students in grades 7 and 8 will self-select a STREAM class to participate in each trimester. These classes will rotate each trimester with the exception of Advanced Theatre and Design It!, which require a first and second trimester commitment. Please visit our school website: stjcs.com for details about each STREAM program.

Based on space availability in each STREAM class, students will need to define their 1st and 2nd choice for their STREAM class each trimester.

We will try our best to accommodate the first choice; however, this may not always be feasible.



STREAM EDUCATION AT-A-GLANCE

CURRICULUM	6 TH			7 TH			8 TH		
	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
 LAKE ECOLOGY & CITIZEN SCIENCE Teacher: Mrs. Laura Schendel	✓	✓	✓	N/A	N/A	✓	N/A	N/A	✓
 ORLANDO SCIENCE CENTER PRESENTS... Teacher: OSC Certified Instructor	✓	✓	✓	N/A	N/A	✓	N/A	N/A	✓
 CODECRAFT LAB Teacher: Certified Codecraft Instructor	N/A	N/A	N/A	✓	✓	✓	✓	✓	✓
 PANTHER PEER LEADERS Teacher: Mrs. Anna Lee Cathcart	✓	✓	✓	N/A	N/A	✓	N/A	N/A	✓
 OUR FAITH THROUGH ART & FILM Teacher: Mr. Peter Odenbach	N/A	N/A	✓	✓	✓	✓	✓	✓	✓
 G.E.A.R Teacher: Mr. Santiago Buraye	N/A	N/A	N/A	✓	✓	✓	✓	✓	✓
 JUNIOR THESPIAN COMPETITION \$ Teacher: Ms. Christi Willard (Drama) Teacher: Mrs. Susan Fay (Design-It!)	✓	✓	N/A	✓	✓	N/A	✓	✓	N/A
 HOLLYWOOD BOUND \$ Teacher: Florida Film Academy <i>*Professional fee of \$100 per student/per trimester.</i>	N/A	N/A	✓	N/A	✓	✓	N/A	✓	✓
 BUILDING THE ANCIENT PYRAMIDS Teacher: Ms. Alyssa Lutz	✓	✓	✓	N/A	N/A	✓	N/A	N/A	✓

ST. JAMES IS STREAMING THEIR EDUCATION

S



Technology



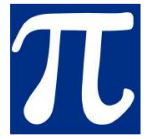
Religion



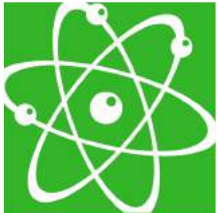
Engineering



Art



Math



Science

LAKE ECOLOGY & CITIZEN SCIENCE

SYLLABUS: Students will participate in multiple hands on lessons created by Project Learning Tree which will develop awareness for the importance of environmental protection and the impact humans have on their local environment. We will go out and create our own map of the area to determine the best location for a picture post.

Students will assemble the materials for the post and help with the installation. You will create the signs and QR codes to be attached to the post. There will be an on-going need to monitor the photos that are taken at this location.

As part of our development of understanding the ecology of freshwater lakes, we will collect water quality data and make detailed counts of species diversity at the lake. After researching the impact of urban parks, we will set a goal about what type of change we will monitor.

Students will learn what Citizen Science is by participating in a beetle watching project. You will learn to use a compass and relate that to GPS technology. This project has long-term educational value as students become part of a long-term look at the environment at Lake Eola. It also exposes them to field techniques and STEM careers.

TRIMESTER AVAILABILITY

6TH GRADE:
ALL

**7TH & 8TH
GRADE:**
3RD ONLY

TEACHER:
MRS. LAURA
SCHENDEL



ST. JAMES IS STREAMING THEIR EDUCATION

S



Technology



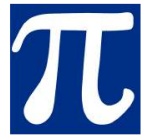
Religion



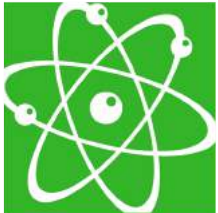
Engineering



Art



Math



Science

THE ORLANDO SCIENCE CENTER PRESENTS...

SYLLABUS: The Orlando Science Center has been a community resource for over 55 years and understands the important role a science center can play in keeping children engaged in STEM areas.

Each week, the Orlando Science Center (OSC) will be on campus to present and facilitate exciting and fun hands-on classes covering a wide variety of topics. Below are a few of the classes coming to you:

TRIMESTER AVAILABILITY

6TH GRADE:
ALL

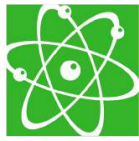
**7TH & 8TH
GRADE:**
3RD ONLY

TEACHER:
OSC CERTIFIED
INSTRUCTOR

- **Forensics:** become a crime scene investigator--match ink samples with chromatography, identify mystery unknowns by their physical and chemical properties, learn blood-typing techniques, and create sketches of a suspect using facial composite computer software.
- **Chemistry:** students will separate substances from mixtures, investigate the identity of unknown chemical compounds, and combine chemicals to cause colors to change, temperatures to rise and fall, and solutions to foam and fizz.
- **Biology:** get up close with living things in BioLab to discover chemical changes that occur within plants during photosynthesis and cellular respiration



ST. JAMES IS STREAMING THEIR EDUCATION



Science

T



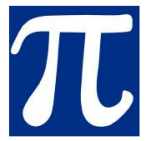
Religion



Engineering



Art



Math



Technology

CODECRAFT LAB

SYLLABUS: Are you a gamer wanting to take your game to the next level? Dive into the technology side of gaming by discovering the coolness of designing your own game. In this class, you will be participating in a three-part Codecraft Works class, using a Python power platform to develop, code, and eventually play your own computer game. Students discover advanced technology, apply critical thinking and reasoning skills, and use enhanced dexterity methods in collaborative group learning centers as part of the curriculum.

Codecraft Works, LLC, provides a National Science Foundation (NSF) backed, web-based, cross curricular and standards aligned technology platform to deliver innovative and cutting-edge computer science, engineering, and cyber security curriculum.

The programs are hands-on and self-paced, accompanied by workshops, talks, and social events. It's the perfect "command central" for future technical superstars!

TRIMESTER AVAILABILITY

6TH GRADE:
N/A

**7TH & 8TH
GRADE:**
ALL

TEACHER:
CERTIFIED
CODECRAFT
INSTRUCTOR



CODECRAFT
MASCOT

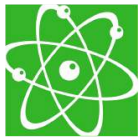
DID YOU KNOW?

Superstars are needed too, now and in the future. Here are some interesting facts according to Code.org:

- By the year 2020, there will be 1,000,000 more computer programming jobs than students.
- Computer science will be the highest paid college degree.
- Jobs are currently growing at two times the national average.



ST. JAMES IS STREAMING THEIR EDUCATION



Science



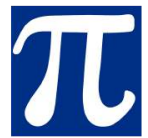
Technology



Engineering



Art



Math



Religion

PANTHER PEER LEADERS (6TH GRADE ONLY)

SYLLABUS: Do you enjoy helping younger students in the classroom? Have you ever dreamed about becoming an educator and a strong leader? If so, this could be the class for you. We need students who are creative, who enjoy working with others, and who will serve as mentors for our first-grade students.

Sixth grade students will use their gifts, imaginations, and academic skills to enrich our little Panthers in the areas of reading, math, science, and art. We will plan exciting activities that inspire and make learning an adventure. We will work in the classrooms, as well as the great outdoors. Come and be a part of serving our younger students!

TRIMESTER AVAILABILITY

6TH GRADE:
ALL

7TH & 8TH GRADE:
ALL
(3RD ONLY FOR PANTHER PEER)

TEACHER:
MRS.
CATHCART
(PANTHER PEER LEADERS)

MR. ODENBACH
(FAITH ART & FILM)



OUR FAITH THROUGH ART & FILM (7TH & 8TH ONLY)

SYLLABUS: Our faith is shared in many ways, but over the centuries, the visual arts may have had the greatest impact. In this class, students will study some of the great Catholic masterpieces through media displays.

Looking at great works of Christian art, the focus will be on the artist himself, and what his work portrays. Films will be introduced on the lives of the saints and the history of the Church.

Artwork: Randy Friemel - Liturgical/Christian Artist



ST. JAMES IS STREAMING THEIR EDUCATION



Science



Technology

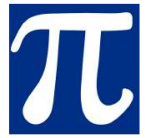


Religion

E



Art



Math



Engineering

G.E.A.R. (GET EXCITED ABOUT ROBOTICS)

SYLLABUS: Robots are becoming more and more advanced. Get ready to ignite your curiosity and imagination through this hands-on robotics class! Students will build and program their very own robot using MINDSTORMS Education EV3 software and materials.

Experience the new wave of 21st Century learning and application with G.E.A.R! Design, program and watch your robot carry out controlled actions created by you. In GEAR class you will learn "how to robot," then use your "robot to learn." This class fosters creative thinking, Increases understanding of scientific and engineering principles used in the design process.

Students learn valuable skills (time management, critical thinking, etc.) needed in the real world. It is vital that today's youth understand how science and technology are shaping the world of tomorrow. The future of our country's economy will depend on a skilled and technologically literate workforce. GEAR is an excellent vehicle for achieving this goal.

TRIMESTER AVAILABILITY

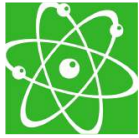
6TH GRADE:
N/A

**7TH & 8TH
GRADE:**
ALL

TEACHER:
SANTIAGO
BURAYE



ST. JAMES IS STREAMING THEIR EDUCATION



Science



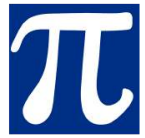
Technology



Religion



Engineering



Math



Art

JUNIOR THESPIAN COMPETITION

ADVANCED DRAMA SYLLABUS: If you are interested in a more serious drama experience then...lights, camera, action! Join Ms. Christi Willard for an in-depth drama experience.



TRIMESTER AVAILABILITY

6TH GRADE:

1ST & 2ND ONLY

7TH & 8TH GRADE:

1ST & 2ND ONLY

***1ST & 2ND TRIMESTER COMMITMENT REQUIRED**

TEACHERS:

CHRISTI WILLARD

SUSAN FAY

This group of students will have the opportunity to compete at the district and state levels! You will be able to audition specific pieces that you work on in this class and take it to the stage.

Students who will be performing in competitions may occasionally need to meet after school. The second part of the year will focus on other aspects of theatre including technical theatre and theatre management.

NOTE: 1st and 2nd trimester commitment required - No 3rd trimester class offered.

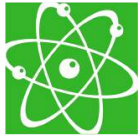


DESIGN IT! SYLLABUS: Creative? Imaginative? Crafty? Artistic? Then help "design it!" Kick your creative talents into high gear with Mrs. Susan Fay as you help design costumes, sets, and props for this year's middle school musicals and other school related events!

This is an opportunity to be on stage without being on stage! Help to plan, design, and create essential elements necessary for a successful musical production! Then watch your hard work help the production come alive!

NOTE: 1st and 2nd trimester commitment required. No 3rd trimester class offered.

ST. JAMES IS STREAMING THEIR EDUCATION



Science



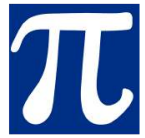
Technology



Religion



Engineering



Math



Art

HOLLYWOOD BOUND (\$)

SYLLABUS: Dreamed of being a movie star? Want to try your hand at directing? In this class, industry professionals from the Florida Film Academy (FFA) will teach you about the art of filmmaking and so much more! Even better, the classes are not just limited to filmmaking, but include photography, movie makeup & FX, journalism, stop motion and so much more!

FFA provides all the professional camera gear, software, and computers that will allow you to work together as a production crew and learn to film, edit, act in front of the camera, develop original stories—all the skills needed and much more to help you become Hollywood bound!

NOTE: This class requires an additional fee of \$100 per student/per trimester to help cover the cost of this professional program.

Space is limited. Secure your seat today and begin your journey to Hollywood in the Second Trimester!

TRIMESTER AVAILABILITY

6TH GRADE:
3RD ONLY

**7TH & 8TH
GRADE:**
2ND & 3RD
ONLY

TEACHER:
FLORIDA FILM
ACADEMY
INSTRUCTOR



ST. JAMES IS STREAMING THEIR EDUCATION



Science



Technology



Religion

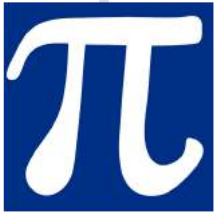


Engineering



Art

M



Math

BUILDING THE ANCIENT PYRAMIDS

SYLLABUS: Do you like to build models? Do you want to learn about the Great Pyramids? Then this fun and hands on class would be great for you! Thousands of years ago, the ancient Egyptians built the three pyramids of Giza for each of the three pharaohs- Khufu, Khafre and Menkaure.

In this class, students will learn about the different structures that were built and how mathematically they were constructed. Then, in groups, students will apply their math skills to build the three pyramids to scale.

TRIMESTER AVAILABILITY

6TH GRADE:
ALL

7TH & 8TH GRADE:
3RD ONLY

TEACHER:
MS.
ALYSSA LUTZ



I STREAM.

I TRY.

I SOLVE.

I THINK.

I INVENT.

I DESIGN.

I CREATE.

I REFLECT.

I QUESTION.

I STRUGGLE.

I COLLABORATE.

I LEARN.