

## CASE Program Details

The Center for the Advancement of Science and Engineering magnet provides a rigorous integrated curriculum that focuses on science, technology, engineering, and math. Students have a selection of science-based electives combined with core curriculum that infuses STEM practices of inquiry-based thinking and project based learning.



### Want to join a STEM Saturday?

On select Saturday's during the 2020-2021 school year, Lockhart opens its doors to our future engineers and developers. The students work together to create turbines, catapults, hoover crafts, and many other projects.

If you are interested please contact:  
[kimberlee.campbell@ocps.net](mailto:kimberlee.campbell@ocps.net)

Apply at: [schoolchoice.ocps.net](http://schoolchoice.ocps.net)  
November 1, 2020—February 15, 2021

## Course Offerings

- **Project Lead the Way**
  - ⇒ Science and Technology
  - ⇒ Design and Modeling
  - ⇒ Medical Detectives
  - ⇒ Energy and the Environment
  - ⇒ Flight and Space
  - ⇒ Magic of Electronics
  - ⇒ Automation and robotics
  - ⇒ Green Architecture
  - ⇒ ICT I & II
  - ⇒ DIT

## Earn High School Credit

- Honors Algebra
- Honors Geometry
- Spanish 1 and 2
- Intro to Engineering
- Honors 7th grade Earth Space Science
- DIT
- Honors 8th grade Physical Science
- HOPE



- |                               |                                   |
|-------------------------------|-----------------------------------|
| • STEM Club                   | • Robotic and Design Competitions |
| • NJHS                        | • Boys and Girls Club             |
| • Field Trips                 | • Battle of the Books             |
| • Morning Inter-mural Sports  | • Orchestra                       |
| • After School Sports Program | • Band                            |
| • BETA Club                   | • Chorus                          |
| • Chess Club                  | • Tutoring                        |
| • Student Council             |                                   |



**OC PS** | Orange County Public Schools



Lockhart Middle School  
*Lisa James, Principal*

# The Center for the Advancement of Science and Engineering (CASE)



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Orlando, FL 32810**

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**Fax: (407) 296-6549**

**Website: [lockhartms.ocps.net](http://lockhartms.ocps.net)  
Facebook/LockhartMiddleSchool**

## Our Vision

The vision of CASE at Lockhart Middle School is to provide meaningful opportunities in a learning community that encourages collaborative decision making, teamwork and problem solving through the use of 21st century thinking skills and technology.



CASE students will represent our award winning STEM Club and participate in statewide competitions.

Lockhart's STEM club has been the recipient of numerous awards including:

- First place at UCF STEM: Best Machine
- First place at Orlando Science Center STEM: Most Innovative Design—Mechanical Arm
- Fourth place at the Statewide Florida STEM competition



## On the path to Greatness

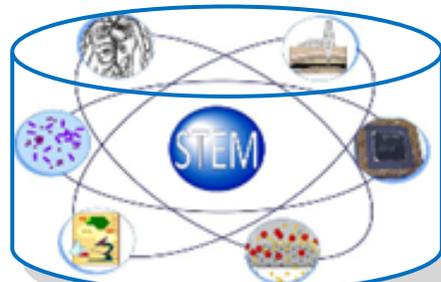
Through Lockhart Middle School's business and educational partnerships, STEM electives introduce students to a variety of engineering fields. Partnerships with nearby Edgewater and Wekiva High Schools allow mentorship opportunities and course progressions within their STEM-based magnet program. STEM principles are infused throughout the day so that students will have a college and career building foundation to support their entire academic



career.

## CASE Cohort!

Case student will be part of a dynamic setting that allows them to grow their knowledge base while also providing opportunities to come together and develop as a whole. Our elite group of CASE students will learn not only from their instructors, but also from the peers within their cohort.



## We Believe:

★ Hands-on course work and instruction of the fundamentals of science, math and technology that encourages and develops higher order thinking prepares our students for college and beyond.

★ Reading, writing, and vocabulary development directly connected to STEM fields is critical for future success.

★ Extended learning beyond the classroom is essential to explore and obtain real-life exposure and experience.

