

# T.E.S.A News

November

## Kennedy Space Center Field Trip

This month in our academy we went to Kennedy Space Center. The class was able to spend the day exploring various rockets, hands-on interactions, and activities while also being able to read various historical facts. While at Kennedy Space Center students had the opportunity to participate in a rocket capsule learning lab; groups were placed in teams and were tasked with designing a paper rocket capsule that wouldn't sink when placed on water. The physical sight and further explanation of the topics covered in class benefited students in an academic and enjoyable way.

**How did the hammerhead shark do on the test?**

-He nailed it...



## Captain Patch

**On November 28th, TESA students had the amazing opportunity to meet an airline captain.**

**Captain patch provided students with knowledge that will help to create focused and disciplined pilots. Thank you, Captain Patch**

## Gliders and Early Flight

*AT1 Students are learning about early flight and making their own gliders to demonstrate aerodynamics.*

In TESA Aerospace Tech 1, we are learning about gliders, the first powered flight and challenges with early aircraft development. The Wright Flyer had many fails, but one day it flew and is marked down as the first powered flight recorded. We have been doing fun educational projects by making our own glider and flying/recording results obtained.



# Aerospace Technology 2 Density Labs

*Students in Aerospace Technology 2 are learning and understanding advanced density concepts.*

This month in Aerospace Tech 2 the Sophomores are learning about density. They found out that different substances and temperatures have different densities. The lab they did was called the water layering lab where they had hot water colored red and cold-water colored blue. Students found that cold water is more dense than hot water meaning that hot water stayed on top when they layered them.



# Embry Riddle Unmanned Aircraft Systems (UAS) Course

*TESA Seniors are working in groups and presenting their innovations.*

Students in the TESA Unmanned Aircraft System course are working to develop a drone that is suitable for the application they chose. Students learned that it is very important to choose the right UAS for the task at hand. The project allows students to select a mission for their drone: saving lives, helping first responders, providing medical care. Then they create/modify a drone to suit the needs of these missions.

