

# FLIGHT & SPACE

## Where the sky is not the limit!

Come *EXPLORE* the world above and beyond...



Students will experience how the world of aerospace comes alive through hands-on activities, research, design and experimentation. Understanding the elements of aerodynamics, propulsion, materials and structures, and stability and control are all key elements designing an aircraft or spacecraft engineers undertake. Students will understand

the physics behind making a heavier than air object, such as an aircraft, virtually lighter than air by using simulations to creating airfoils. Space is from 100 miles above the earth through the solar system and beyond. Students will experience space travel and spacecraft innovation through interactive simulations.

### Your Keys to the Course

#### TEACHER

**Mr. Murphy**



#### WHERE & WHEN

Period       
 Room **309**

*Technology Education Department*

[www.mrteched.com](http://www.mrteched.com)

[tmurphy@smithtown.k12.ny.us](mailto:tmurphy@smithtown.k12.ny.us)

Please schedule extra help with Mr. Murphy during the following periods.



NASA Langley's Ultraviolet  
 Corona Detection System

#### Lesson Summary

- Lesson 1: History of Flight and Space
- Lesson 2: Aeronautics
- Lesson 3: Traveling and Living in Space

WEBSITE: <http://mrteched.com>

Project Lead The Way(PLTW): <https://www.pltw.org/>

PLTW Personal Password: \_\_\_\_\_

PLTW Username: \_\_\_\_\_

Google Classroom Code: \_\_\_\_\_



Cut along dotted line and return bottom to Mr. Murphy



I have a complete understanding of the classroom and lab safety rules and procedures and will make every effort in making sure I abide by them while present in these rooms. I am responsible and will be held accountable for my actions.

Students Name: \_\_\_\_\_ Class Name: \_\_\_\_\_ Period #: \_\_\_\_\_

Students Signature: \_\_\_\_\_ Grade Level: \_\_\_\_\_

Parent/Guardians Signature: \_\_\_\_\_ Phone #: \_\_\_\_\_

Parent/Guardians Email: \_\_\_\_\_ Date: \_\_\_\_\_

# CLASS DETAILS

## All schoolwide rules apply!

### CLASSROOM RULES

- Students are responsible for cleaning up after themselves.
- Students are required to participate in lab cleanup and will be counted towards your grade.
- Please be environmentally conscious and don't be wasteful with materials.
- No students are allowed to enter the classroom or lab without a Technology teacher present.
- The teacher and school district will not be held liable for any personal belongings left behind.

### TECHNOLOGY LAB RULES

Students must understand and follow all classroom rules as well as lab safety rules, receive a 100 % on a lab safety quiz, and bring in the "Lab Safety Parent/Guardian Safety Signature Form" signed by both the student and the parent and/or guardian.

### Supplies Required

- 5 - #2 Pencils
- 2 – Pens
- 1 – 2 Pocket Folder
- 1 – Gallon size Ziploc baggie

### Optional Supplies:

- Earbuds
- Cordless mouse

### Preparedness:

Come to class prepared daily with the required supplies. Be prepared; body, mind, and supplies and ready to interact and learn.

- ❖ All engineering notebooks must remain in class at all times.

### Teamwork:

Teamwork is an essential skill to succeed, please take the opportunity in helping yourself to learn from your teammates and share your successes with them.

### Final Portfolio:

The Engineering Notebook, also known as the final portfolio, is the compilation of notes, design briefs, sketches, charts, and final drawings and will be counted as 11% of the final grade in Powerschool.

### Grades will be based on the following percentages:

Classwork & Activities	40%
Homework & Participation	10%
Projects	40%
Tests & Quizzes	10%

Please print in black and white to save money

# Safety First!