**Technology Education**

Plymouth High School

**Exploring Transportation** introduces the student to the very large transportation field with units in technology systems, creative problem solving, air, space, marine, and land transportation. If time is available, small gas engines will be studied. Occupational career opportunities will be covered in each of the transportation units.

**Essential Principles to Understand:**

 Vocabulary related to wood and the transportation industry.

 The forces acting on and the transmission of power in air, space, marine, and land transportation.

**Skills to Master:**

 Safely use hand and power tools to build, air, space, marine, and land transportation devices.

 Safely use hand tools to disassemble and assemble a small gas engine.

**Units**

1. Introduction to the class

 2. Energy (trebuchet)

 3. Space Transportation (Rocket)

 4. Small Gas Engine

 5. Air Transportation (Glider and air plane)

 6. Marine Transportation (boat)

 7. Land Transportation (car and pulling car)

 8. Transportation Careers

**Required Materials:**

* a folder to keep your papers in - safety glasses
* a pencil

**Student Expectations:**

1. Be prepared. Students are expected to have their folder, safety glasses, and pencil in class each day.

2. This course is designed to be a hands on course with large amounts of time working on projects. Since it takes time to complete well- built projects and experiment with things, absences should be avoided if possible. Mr. Odekirk is available to help during the class day and after school.

3. Students are expected to work in a manner that is respectful of everyone in classroom with the learning and safety of others as well as themselves to be the top priority at all times. Respect one another’s opinions and attentively listen to each other as a team member. Appreciate one another, not put each other down.

4. Use tools and equipment in the manner that they are designed to be used. Do not waste materials.

5. Students are expected to be productive and always strive to work to the best of their ability. Participate! Presentations, discussions, and group work are part of this class. It is important that each student do his / her part in order to have a successful learning experience and a good final project. Think about “What we are doing?” and “Why are we doing it?”

6. Be punctual and productive. Students are to be in their seat (or at their work bench) when the bell rings and be ready to work with the required materials. Check the bulletin board / overhead for instructions each day and begin working on those tasks. Late students will be marked tardy.

7. Cell phones, iPods, mp3 players, and other cellular devices will be allowed in the class if they are used appropriately. This means that they should not be used during class presentations, discussions, and group work. They should not interrupt with the focus on learning in class.

8. Food and drink will be allowed in class if it is handled appropriately. Please dispose of all wrappers and packaging.

9. Be aware of procedures for tornadoes and fire alarms. Have permission to leave the room. Know the location of fire extinguishers and what to do for first aid.

**Mr. O’s Plymouth High School Weebly Website:** http://mrophs.weebly.com

 Please note that this website will be updated frequently. This is your source for class notes, videos, and assignments. Please take the time to review the class notes and videos before we cover them in class. This will make it much easier to be successful in this class.

Mr. Odekirk’s email: kodekirk@plymouth.k12.wi.us or mrophs7@gmail.com

Phone: (920) 893 6911 Ext 1549

GRADING SCALE: 100 – 93 % A 92 – 85 % B

 84 - 78 % C 77 – 70 % D 69 % and Below F

GRADING CATEGORIES AND PERCENTAGES: Formative Assessments / Practice – 10%

 Lab / Shop Work, Projects, Skill Assessments – 70 %

 Tests and Quizzes - 20 %

Work that is late will be listed as missing in Skyward. Work that is more than two weeks late will be listed as a zero in the grade book until it is turned in. Projects will be checked for progress on a regular basis.

Please remember – WE ARE HERE TO LEARN! Work can be redone / recycled. Tests can be retaken, but this must be done outside of class.

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By signing, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (print first and last name) understands the expectations and procedures to be followed in the Technology Education department.

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Student Signature Date Parent /Guardian Signature Date

Photos taken during class that include the above listed student can be used for promotional materials (website and newspaper articles). \_\_\_\_\_\_ YES \_\_\_\_\_\_ NO