

Automotive Course Outline

7 Power Mechanics, All schools Semester 2, Turtle River School Division

Teacher: Mrs. Stokes Email: mdejong@trsd.ca

Course Overview:

- Develop safe work habits in the shop and at the job, expand on work place safety and why it's important, and what they can do to protect themselves in the future
- Learn basic hand tools and proper application while taking apart a small engine
- How the internals of an automotive engine work
- Learn the names, and functions of each part they take off, and describe what it looks like

No prerequisites for this course

Resources:

Parts catalogues, paper blueprints, and textbooks along with videos reviewed by me will be used as the theory aspect of this course to refine the kids understanding on engine components and their functions. As well as identifying basic tools used commonly in the automotive industry.

Practical aspects of this course will be applied throughout their small engine disassembly and reassembly.

Supply List:

Pencil case, blank paper

Rules and Expectations:

1. Present in class and participation in daily projects
2. Cellphones to be put away during class, unless they're being used for research purposes, or on break, and will be held at my desk if misused after 3 warnings and returned at the end of class.
3. Respectful language and behavior to the teacher and other classmates. Talking only when doing their practical work or any written projects they might have questions about, not while instruction is being given.
4. Come ready to class with all necessary supplies
5. Always handle tools and equipment in the shop properly and how they are instructed to be used

Assignment Guidelines:

Assignments are to be handed in on the due date I assign. Students can have extra time to finish any assignments during the due date class if they were absent or it does not interfere with the assignment or project that day.

Late assignments will appear as zero until they are completed and handed in. If a student or students continuously hand in late assignments the parents, or parent will be notified.

No tolerance for plagiarizing, if caught the student will receive a zero and will have to re-due the assignment.

Students that miss classes and fall behind will receive some assistance from me to help them catch up to the pace of the rest of the class, but will have to try their best on their own as well and not rely solely on my help.

Units of Study:

1. Shop Health and Safety **Outcomes:** Kick start early development, understanding, and habits for future health and safety sustainability for each student.
Approximate time: 1 class, 3 hours
2. Small Engine Disassembly **Outcomes:** Learn to use specific hand tools commonly used in the shop, and how to stay organized while taking on a project with many parts. Understand what each parts function is.
Approximate time: 3 classes, 9 hours
3. Small Engine Reassembly **Outcomes:** Recognize the importance of organization and teamwork, maintain good tool identification and handling, along with time management.

Assessment Guidelines:

Practical (hands on)- Daily Participation, tool use, time management, attendance **50%**

Theory, written description, function, and purpose for each engine part **30%**

Daily score out of 5 **20%**

Overall percent out of **100**

Final grades and marks for students will be a direct reflection of the end result of the students understanding of that specific unit of study and its outcomes and goals.

Evaluation:

Evaluation will be done using rubrics and checklists as follows

1. Teacher evaluation (how instruction is taken and applied to daily projects)
2. Peer evaluation (teamwork capability)
3. Individual evaluation (growth as an individual student)

