

Cato-Meridian Jr./Sr. High
7th Grade Introduction to Technology
Mr. McGowan

Course Description:

The Introduction to Technology provides students with an understanding of many of those technologies – the Internet, electronics, energy, transportation systems, biotechnology, telecommunication, and more. Students study the effects and consequences of technology – both good and bad – and examine trends to visualize what might lie ahead. They explore the systems-oriented method of thinking to produce products and systems. With hands-on activities in each area, students are better able to understand how technology can help them become better decision makers and problem solvers.

Units: These will be covered from 6th through 8th grade.

- **Getting to know Technology**
- **What Resources are needed or Technology**
- **How People use Technology to Solve Problems**
- **Systems and Subsystems in Technology**
- **How Technology affects people and the environment**
- **Choosing appropriate resources for Technology Systems**
- **How resources are processed by Technology Systems**
- **Controlling Technological Systems**
- **Technology and Society: Now and in the future**
- **Using Systems to solve problems**

Grading: The grading for this course is based on a point system.

Classwork is out of 100 points.

Quizzes and Test: 100 points and up.

Projects: 100 points and up.

Student's Responsibilities:

- Bring to class: Pencil and Chromebook
- Complete all work on time.
- Follow all class and school rules.
- **Work hard, Learn and have some fun.**

Class Rules:

- TO BE ON TIME:
 - If you are going to be late, have a late pass.
- When entering class, take your seat, seat quietly and read the agenda on the board.
- No Gum, Drinks, or Food in class (Water bottles are fine.).
- Be considerate during demonstrations/lectures.
- Please use proper language.
- No horseplay or running in the classroom.
- Ask permission for use of the restrooms. Passes only during activity periods, NOT during demonstrations & lectures.
- Follow all safety rules when working in the lab.
- Do not operate any machines without permission. Mr. McGowan must be present in the classroom before you use any power machines.
- Assist in the cleanup of the classroom.

E-Mail:

kmcgowan@catomeridian.org

I check my email everyday. So feel free to email me if you have a question or a problem.

Cato-Meridian Jr./Sr. High
8th Grade Introduction to Technology
20 weeks
Class meets on “G” days.
Mr. McGowan

Course Description:

The Introduction to Technology provides students with an understanding of many of those technologies – the Internet, electronics, energy, transportation systems, biotechnology, telecommunication, and more. Students study the effects and consequences of technology – both good and bad – and examine trends to visualize what might lie ahead. They explore the systems-oriented method of thinking to produce products and systems. With hands-on activities in each area, students are better able to understand how technology can help them become better decision makers and problem solvers.

Units: These will be covered from 6th through 8th grade.

- **Getting to know Technology**
- **What Resources are needed or Technology**
- **How People use Technology to Solve Problems**
- **Systems and Subsystems in Technology**
- **How Technology affects people and the environment**
- **Choosing appropriate resources for Technology Systems**
- **How resources are processed by Technology Systems**
- **Controlling Technological Systems**
- **Technology and Society: Now and in the future**
- **Using Systems to solve problems**

Grading: The grading for this course is based on a point system.

Classwork is out of 100 points.

Quizzes and Test: 100 points and up.

Projects: 100 points and up.

Student’s Responsibilities:

- Bring to class: Pencil and Chromebook
- Complete all work on time.
- Follow all class and school rules.
- **Work hard, Learn and have some fun.**

Class Rules:

- TO BE ON TIME:
 - If you are going to be late, have a late pass.
- When entering class, take your seat, seat quietly and read the agenda on the board.
- No Gum, Drinks, or Food in class (Water bottles are fine.).
- Be considerate during demonstrations/lectures.
- Please use proper language.
- No horseplay or running in the classroom.
- Ask permission for use of the restrooms. Passes only during activity periods, NOT during demonstrations & lectures.
- Follow all safety rules when working in the lab.
- Do not operate any machines without permission. Mr. McGowan must be present in the classroom before you use any power machines.

- Assist in the cleanup of the classroom.

E-Mail:

kmcgowan@catomeridian.org

I check my email everyday. So feel free to email me if you have a question or a problem.

Course: Materials Processing Woods

Mr. McGowan

Length: 20 Weeks

Credit: 1/2 Credit

Course Description

Woods processes is a twenty-week course that acquaints the student with basic knowledge of wood hand and machine tools, materials, and process.

Students have the opportunity to achieve direct contact experiences in many areas through numerous lab work periods that will be provided as a regular part of the course. Woods technology is a course that should be of special interest to those students entering engineering, technical or trade fields, which are associated with the use of wood as a construction material. In addition, such a course can provide helpful exposure to students that may use it as a prevocational or a vocational experience. The experience may also prove to be helpful in seeking a trade or general employment.

Course Objectives:

1. Students will show that they can read and use a drawing for the completion of project requirements.
2. The student will be able to identify commonly used hard and soft woods.
3. Students will exhibit a knowledge of each of the above woods uses and characteristics.
4. Students will demonstrate a general knowledge of wood joints by identifying 10 different types and explaining their uses.
5. Students will be able to identify 15 different hand tools and demonstrate their proper use.
6. The student will show knowledge of determining costs for different types of wood products and projects.
7. Course participants will be able to safely use the different woodworking machines in the shop.
8. Course participants will demonstrate and apply an awareness of lab safety and show good work habits

Students Responsibilities:

1. All students will be in their seats and quiet at the start of the class.
2. Students must bring all necessary materials to class and take care of any other needs between classes.
3. Class members will demonstrate an interest in learning by being quiet and attentive during instruction.
4. All class members will show self control at all times when in the shop, Absolutely no running, pushing, or other foolishness will be tolerated.
5. All class members will show self control and use proper language.
6. Each student will hand in his or her homework on time.
7. Every student will wear aprons and safety glasses throughout all work periods and follow all shop safety rules.
8. All class members will thoroughly complete their cleanup job at the end of each work period

Text: Wood Technology and Processes

Grading; Total Points

Homework: Google Classroom (Google Forms)

Classwork

Daily Clean-up

Project

Performance and Participation

Extra Credit Lab Maintenance

Quiz & Final Exam:

Lesson Topic Outline

Wood Processes

NO	Lesson title	Reading asgmt.
1	Woodworking industry and wood careers	Pg. 65-74
2	Design and Sketching	Pg. 87-102
3	Kinds and Properties of wood	Pg. 50-57
4	Hand Tools part 1	Pg. 16-25
5	Hand Tools part 2	Pg. 25-33
6	Wood Structure and Harvest	Pg. 66-68
7	Seasoning and Grading Lumber	Information sheet
8	Buying Lumber	Information sheet
9	Shop Safety	Pg. 75-86
10	Portable Power Tools Saber and Cutoff Saws	Pg. 331-338 Pg. 118-122
11	Portable Power Tools Electric Drill and Router	Pg. 132-140 Pg. 359-369
12	Portable Power Tools All Sanders	Pg. 371-378 Pg. 149-154
13	Plywood	Pg. 58-60
14	Other Wood Products	Information sheet
15	Wood Bending	Information sheet
16	Laminating & Veneering	Pg. 262-268 Pg. 270-276
17	Scroll Saw and Band Saw	Pg. 319-330 Pg. 340-348
18	Drill Press and Power Drilling	Pg. 349-358
19	Table Saw	Pg. 298-310
20	Planer	Pg. 278-284
21	Wood Lathe	Pg. 379-394
22	Jointer	Pg. 286-294

