



7th GRADE

**Course Selection Guide
2021-2022**

INTRODUCTION

The Mapleton Middle School Course Selection Guide outlines the courses available to our students. Information is also provided to assist students and their parents with future planning. We hope you find this document helpful as you consider your student's scheduling options. Please contact the school counselor, administrators, or teachers at any time throughout the registration process for assistance.

Every effort is made to ensure accuracy regarding the course information provided before the Course Selection Guide is printed. Since the Guide is printed so early for scheduling purposes, some changes in course offerings may occur.

COURSE OFFERINGS 2020-2021

All 7th grade students will take the following required courses:

- English Language Arts (ELA Lab* may also be required)
- World Studies
- Science
- Math (Math Lab** may also be required)
- Success
- Physical Education 7 (9 weeks)
- Art 7 (9 weeks)
- Energy & the Environment (9 weeks)
- Manufacturing Operations (9 weeks)

***ELA LAB**

This course provides support and intervention for students in English Language Arts. It is specifically designed for students who may need the opportunity to work in smaller groups or who need additional remediation and support when learning new English Language Arts concepts. Students will be scheduled into this course based on teacher recommendations and assessment data or parent request.

****MATH LAB**

This course provides support and intervention for students in Math. It is specifically designed for students who may need the opportunity to work in smaller groups or who need additional remediation and support when learning new math concepts. Students will be scheduled into this course based on teacher recommendations and assessment data or parent request.

SUCCESS

Course Length: Year

For the duration of this course, students will work directly with the 7th grade core content teachers to build a strong foundation of skills that will benefit them throughout middle school and beyond. Academic enrichment activities will be provided to all students to help ensure success in all classes. The Botvin LifeSkills Training program, a substance abuse and violence prevention program, will also be utilized throughout the year. As part of this program, students will learn about setting goals, making decisions, keeping friends, staying calm, and communicating with others.

ENERGY & THE ENVIRONMENT

Course Length: 9 weeks

STEAM (Science, Technology, Engineering, Arts, and Math) courses at the middle school will engage students in activities that not only build knowledge and skills in areas including computer science, engineering, and biomedical science, but also empower students to develop essential skills such as problem solving, critical and creative thinking, communication, collaboration, and perseverance.

In this course, students are challenged to think big and toward the future as they explore sustainable solutions to our energy needs and investigate the impact of energy on our lives and the world. They design and model alternative energy sources and evaluate options for reducing energy consumption.

MANUFACTURING OPERATIONS

Course Length: 9 weeks

This course is part of Ohio's Engineering and Manufacturing Pathways curriculum and is designed to introduce middle school students to the world of manufacturing. Why manufacturing? Consider this: manufacturing is responsible for almost 17% of Ohio's Gross Domestic Product and our state ranks among the top five in the country in manufacturing. There is a growing movement in Ohio and across the nation to educate students about careers at a young age so they can begin preparing early for successful futures.

In this 9-week course, students will learn about the tools, materials and processes used in manufacturing. They begin by studying manufacturing systems traditionally used in industry; following that they practice their linear measuring skills (reading a ruler) and learn about drafting and design. Finally, they produce a metals project using methods similar those used in the real manufacturing world. If time allows other practices of modern-day manufacturing will be introduced such as computer numerical control (CNC). Due to the course's short duration, projects are small and power machinery use is limited.

Coursework consists of a balance of conventional classroom work (including lessons and tests) and hands-on project work. Students are expected to approach all work enthusiastically and safely, and be able to interact positively with peers in a group setting. A lab fee covers the cost of safety glasses and supplies for the required projects.

MYTHOLOGY

Course Length: 9 weeks

Mighty heroes. Angry gods and goddesses. Cunning animals. Learn how the ancient Greeks and Romans believed the Gods of Mount Olympus shaped the world of men. The Class will cover the

following: the birth of the world, how the world works, the epic Trojan War, Heracles, Achilles, Odysseus, Romulus and Remus, and the mythology still around us today.

INTRODUCTION TO AGRICULTURE

Course Length: 9 weeks

Course description pending.

MONEY! MONEY! MONEY!

Course Length: 9 weeks

Have you ever wondered what it takes to make it on your own in the real world? Spend time completing projects and real-world simulations and enjoy engaging guest speakers as you learn about personal finance, budgeting, and more. Students will enjoy all of the real-life applications in this hands-on, practical course.

MOUNTIE NEWS

Course Length: 9 weeks

Learn about all different aspects of journalism, and put your skills to practice by publishing the Mapleton Middle School newspaper! You'll have the opportunity to write feature articles, reviews, sports articles, editorials, and more. You'll get to try your hand at taking photos, editing, designing, and more. Expect a very hands-on experience as you create an awesome publication for your peers while developing some new technology skills! You'll become a pro at using Google sites, forms, draw, and more!

YEARBOOK

Course Length: 9 weeks

Students will create and design the Mapleton Middle School yearbook. Students will learn elements of design, picture editing, and meeting timelines. Students will help promote and sell the yearbook along with being responsible for creating pages in the yearbook that relate to specific school events, sports teams, and/or club activities. Students may need to attend events after school to take pictures.

7th Grade Electives _____

Note: Electives are subject to availability. Some courses may not be offered or available to all students depending on factors such as course demand, available space in a student's schedule, or the overall curricular needs of the school.

7th & 8th GRADE BAND

Course Length: Year

The primary goal of the Mapleton Middle School band is to provide young people with an experience in instrumental music that is both enjoyable and educational. Students will participate in a variety of instrumental performances throughout the year. Participation in the middle school band program prepares students to be members of the high school marching, concert, and pep bands.

7th & 8th GRADE CHOIR

Course Length: Year

Choir is a course that provides the opportunity for students to excel in vocal music. Students will participate in vocal performances throughout the year. Participation in the middle school choir program prepares students to be members of the high school choir.

MEDICAL DETECTIVES

Course Length: Semester

In this first course of the Biomedical Pathway, students play the role of real-life medical detectives as they analyze genetic testing results to diagnose disease and study DNA evidence found at a “crime scene.” They solve medical mysteries through hands-on projects and labs, investigate how to measure and interpret vital signs, and learn how the systems of the human body work together to maintain health. (STEAM)

AUTOMATION & ROBOTICS

Course Length: 9 Weeks

Students trace the history, development, and influence of automation and robotics as they learn about mechanical systems, energy transfer, machine automation, and computer control systems. Students use the VEX Robotics® platform to design, build, and program real-world objects such as traffic lights, toll booths, and robotic arms. **This course is a required for student who take Robotics Team.** (STEAM)

ROBOTICS TEAM

Course Length: Year

This advanced course is for students who have had previous experience with automation and robotics. Students will continue to learn about mechanical systems, energy transfer, machine automation, and computer control systems. Students will continue to enhance their skills through the VEX Robotics® platform in preparation for robotics competitions. Students in this class are required to be part of the robotics competition team. **Students who take this course must also take Automation & Robotics (can be taken concurrently).** (STEAM)

SCIENCE FAIR 7

Course Length: Semester

It is the goal of the Mapleton Middle School Science Department to help students have a successful and rewarding Science Fair experience. During the 2nd and 3rd 9 weeks of the school year, with the support of structured time and teacher availability, students will be investigating answers to scientific questions that are important to them. These scientific questions will be guided to be real world questions with real world applications, similar to what scientists do in their careers. Students will be doing inquiry-based science projects that will foster enthusiasm for science while also improving knowledge and skills.

Students will gain background information by completing internet research. They will formulate a hypothesis and design their experimental procedures. After writing a report to summarize this background information, each student will perform an experiment, draw conclusions, and communicate the results to teachers and classmates.

Through time management and project planning, students will take on the responsibility of completing a Science Fair project. They will be encouraged to present this project at the local and

district science fairs. If students earn superior ratings at the local and district levels, they will qualify for the State Level Science Fair.