

**TYRONE AREA
MIDDLE SCHOOL**



2020-2021

**COURSE
DESCRIPTION
BOOKLET**

MS COURSE SELECTIONS
2020 - 2021 SCHOOL YEAR

ADMINISTRATION:

MR. JOHN CLARK

BUSINESS ADMINISTRATOR

MRS. LESLIE ESTEP

ACTING SUPERINTENDENT/DIRECTOR OF CURRICULUM

MRS. KRISTEN PINTER

MIDDLE SCHOOL PRINCIPAL

MS SPECIAL EDUCATION COORDINATOR:

MRS. JESSICA ANDERSON

DEAN OF STUDENTS:

MRS. LINDSAY MIKSICH

SCHOOL COUNSELORS:

MRS. APRIL CAMPBELL

MR. MATT KIMBERLIN

Dear Student and Parent:

The mission of the Tyrone Area Middle School is to promote high standards of achievement with goals and objectives matched to the varied developmental characteristics of the middle school student. The administration, teachers, and staff believe that it is our responsibility to foster productive members of society by building a student centered environment together with parents and the community. We recognize that the middle school is a developmental bridge to ease the transition from elementary school and to high school during these unique and formative years.

To help promote this vision, the counseling department and administration have assembled a booklet to detail the programs of study for the 2020 – 2021 school year. All middle school students follow their grade level's required course of study, with electives added during 7th and 8th grade. More electives are offered as they progress to the high school level.

In the months ahead, students will be informed about the scheduling process. Your participation as a parent in this process is vital. We ask you to be involved by reviewing and discussing your child's proposed schedule choices.

The Course Selection Sheet will be prepared for you and your parents. It contains the list of courses for students at each grade level at the Tyrone Area Middle School.

Please contact us if you have any questions regarding your child's schedule. I know that we will continue to build upon our foundation to provide a challenging learning environment for all the "Golden Eagles" of the future.

Kristen N. Pinter
Middle School Principal

"It is the policy of the Tyrone Area School District not to discriminate on the basis of sex, handicap, race, and national origin in its educational and vocational programs, activities, or employment as required by Title IX, Section 504, and Title VI. Please direct questions about this policy to The Superintendent of Schools, at 814.684.0710 Ext. 4123."

MS COURSE SELECTIONS

<u>GRADE 5</u>	<u>CREDIT</u>	<u>MEETS</u>	<u>GRADE 6</u>	<u>CREDIT</u>	<u>MEETS</u>
Social Studies	1	Semester	Guided Reading	1	all year
Guided Reading	1	all year	Math	1	all year
Math	1	all year	Writing	1	all year
Writing	1	all year	Science/Health	1	all year
Science	1	Semester	Social Studies	1	all year

Non-core subjects: 7 day rotation

Band/General Music (1x), Chorus (2x), PATHS (1x), Physical Education (2x), Art (1x)

Non-core subjects 7 day rotation

Art (1x), Band/General Music (1x), Chorus (2x), Physical Education (2x), Technology (1x)

<u>GRADE 7</u>	<u>CREDIT</u>	<u>MEETS</u>	<u>GRADE 8</u>	<u>CREDIT</u>	<u>MEETS</u>
ELA 7	1	all year	ELA 8	1	all year
Mathematics*	1	all year	Mathematics*	1	all year
Science 7	1	Semester	Science 8	1	all year
US History I	1	Semester	US History II	1	all year

Non-core subjects 10 day rotation

LifeSkills I (2x), Physical Education (4x), and Technology (2x) (Vocal Attraction)
Tyrone History (2x)**

Non-core subjects 10 day rotation

Health (2x), LifeSkills II (2x), Physical education (4x), and Art (2x) (Vocal Attraction)**

**Advisory Program
Enrichment/Interventions
Study Support**

**Advisory Program
Enrichment/Interventions
Study Support**

ELECTIVES FOR 7TH GRADERS

<u>GRADE 7</u>	<u>CREDIT</u>	<u>MEETS</u>
Intro to Art	1	all year
MS Band and/or Chorus	1	all year
Newspaper	1	all year
Introduction to Sports Statistics	.50	Semester
Introduction to Computer Programming		
Using Scratch	.25	Quarter
STEAM	.25	Quarter
Creative Writing	.25	Quarter

ELECTIVES FOR 8TH GRADERS

<u>GRADE 8</u>	<u>CREDIT</u>	<u>MEETS</u>
*Middle School Yearbook	1	all year
MS Band	1	all year
Chorus	1	all year
*Spanish I (limited)	1	all year
Newspaper	1	all year
Technology Education	.25	Quarter
Health Services	.25	Quarter
Metalworking and Manufacturing	.25	Quarter
Science, Agriculture, and Natural Resources	.25	Quarter
Visual Arts and Multimedia	.25	Quarter
Science and Engineering	.25	Quarter
Technology/Comp. Science	.50	Semester

***SEE COURSE REQUIREMENTS**

****MUST AUDITION**

Though Pennsylvania Department of Education regulations determine your basic subjects, there are quite a few electives available to you in grades 7 and 8. Career Education will be integrated across the curriculum into content areas. You should take full advantage of the curriculum according to your interests and abilities.

REQUIRED COURSES:

GRADE 5:

Ancient Civilizations, Guided Reading, Math, Writing, Science, and the 7 day Rotation block.
Every student will have an advisory period.

GRADE 6:

Guided Reading, Math, Writing, Science/Health, Social Studies, and the 7 day Rotation block.
Every student will have an advisory period.

GRADE 7:

English, Math, Science, History, Electives, and the 10 day Rotation block.
Every student will have an advisory period.

GRADE 8:

English, Math, History, Science, Electives, and the 10 day Rotation block.
Every student will have an advisory period.

ADVISORY PROGRAM - ALL GRADES

The Advisory Program provides an opportunity to improve learning by having one teacher work with the same set of students regularly throughout the entire school year. Students will complete assignments and get advice on their current grades as well as any needed assistance in achieving higher grades. The goals of the Advisory Program are: student self-awareness, student self-respect, student discipline, student interpersonal competence, adult guidance and support, teacher student relationships, student sense of community, and student awareness of academic and non-academic achievement.

LANGUAGE ARTS

GRADE 5

WRITING

1 CREDIT

The fifth-grade writing curriculum is designed to develop writing skills to master the five PA core standards: Foundational skills, reading information text, reading literature, writing, speaking and listening. The writing curriculum stresses the process of writing as we focus on writing informative, persuasive, and narrative essays. In fifth grade writing, we also focus on grammar and language usage, as well as vocabulary development.

GUIDED READING

ALL YEAR

Fifth Grade students are involved in Guided Reading each day. Guided Reading is small-group instruction for which students read the same text. The students read at about the same level, demonstrate similar reading behaviors, and share similar instructional needs. The small groups are temporary; they change as we assess each student's growth and needs. The ultimate goal of guided reading is to read a variety of texts with ease and deep understanding. A guided reading lesson includes comprehension, vocabulary, fluency and word study mini-lessons. The purpose of guided reading is to teach individuals to read increasingly difficult texts with understanding and fluency.

GRADE 6

WRITING

1 CREDIT

The sixth grade writing curriculum formally addresses the development of writing skills to master the four PA core standards: Reading information text, reading literature, writing, speaking and listening. The program stresses the writing process and the skills of writings, descriptive, informative, narrative, and persuasive writing; reading comprehension; grammar and language usage; vocabulary and spelling; speaking and listening skills; critical reading and literary analysis. The course is designed to integrate these skill areas throughout the school year.

GUIDED READING

ALL YEAR

Sixth Grade students have Guided Reading each day. Guided Reading is small-group instruction for which students read the same text. The students read at about the same level, demonstrate similar reading behaviors, and share similar instructional needs. The small groups are temporary; they change as we assess each student's growth and needs. The ultimate goal of guided reading is to read a variety of texts with ease and deep understanding. A guided reading lesson includes comprehension, vocabulary, fluency and word study minilessons. The purpose of guided reading is to teach individuals to read increasingly difficult texts with understanding and fluency.

GRADE 7

ELA

This course is designed to expand reading comprehension and vocabulary skills. Focus will be on the Pennsylvania Reading Anchors in regard to terminology and test-taking skills. Various novels based on student individual interest and ability will also be included in the course. Technology projects will be used to demonstrate creativity and application of reading skills learned.

ENGLISH 7

1 CREDIT

ELA 711: This course will focus on the skills needed to develop the PA Core standards of reading informational text, reading literature, writing, and speaking and listening.

Writing Outcome: Students will write for different purposes and audiences. Students' writing will be clear and focused and will convey a well-defined perspective and appropriate content. Students will explore and create informative, explanatory, argumentative, and narrative essays.

Grammar Learning Outcome: Students will write following the standard conventions of English grammar. They will use precise language, use varying sentences, both in length and complexity, use a consistent voice and style, and use proper grammar conventions.

Reading Learning Outcome: Students will read informational texts and literary texts from different genres. Students will learn reading strategies in order to read and analyze these texts to make inferences and connections to aid in comprehension.

Vocabulary Learning Outcome: Students will acquire academic and domain specific vocabulary and learn how to determine the meaning and clarify unknown words and/or phrases through decoding tools and strategies necessary for comprehension and expression. Extensive work with Greek and Latin affixes will also be completed.

Speaking & Listening Learning Outcomes: Students will engage in collaborative discussions based on grade-level topics, texts, and issues. Building on ideas of others and expressing ideas clearly using specific claims, soundness of reasoning, and relevancy will be the main focus.

Students will be expected to work independently, think critically, and actively participate in their own learning.

ELA 712

ELA 712:

Students will work with the learning outcomes above. However, this is an advanced course marked by higher-level readings and vocabulary study. Students will also work to develop higher-level writing skills while focusing very closely on the elements of style and craft. **When appropriate, this course moves at an accelerated pace.**

Placement into this class will be determined by:

Grade average scores, results of standardized assessments, and the average of summative assessments.

GRADE 8

ENGLISH 8

1 CREDIT

ELA 811: This course will focus on the skills needed to develop the PA Core standards of reading informational text, reading literature, writing, and speaking and listening.

Writing Learning Outcome: Students will write (addressing a variety of prompts and in a variety of forms) integrating what they have read, their own knowledge, and the inferences they have made in order to demonstrate new thoughts, ideas, and an understanding of course concepts.

Grammar Learning Outcome: Students will write following the standard conventions of English grammar in order to clearly communicate their ideas and ensure that their writing is effective and understandable.

Reading Learning Outcome: Students will read and analyze texts in order to make inferences about and connections to these texts in their writing.

Vocabulary Learning Outcome: Students will use context and personal connections to learn new words in order to be better readers and express ideas more precisely.

Speaking & Listening Learning Outcomes: Students will come to discussions prepared and will be active participants who ask questions, acknowledge new information, and change or defend their own views in light of the evidence presented. Students will be expected to work independently, think critically, and actively participate in their own learning.

ELA 812: This is an advanced course marked by higher-lexile readings, deep vocabulary study including Greek and Latin roots, development of higher-level writing skills, and a focus on elements of style and craft. This class will move at an accelerated pace when appropriate. This course will focus on the skills needed to develop the PA Core standards of reading informational text, reading literature, writing, speaking and

Students will be expected to work independently, think critically, and actively participate in their own learning

Placement into this class will be determined by:

Grade average, results of standardized tests, and average of summative assessments

MATHEMATICS

The middle school math program addresses the skills needed to master the eligible content of the state academic anchors aligned with PA Core Standards. These anchors are integrated throughout the math curriculum as students' progress through grades 5, 6, 7, and 8. Tyrone Area Middle School uses a systematic approach to enroll students in individual classes. Students are placed in their class based on PSSA scores, marking period grades, end of year post test, and teacher recommendation.

GRADE 5

MATH

1 CREDIT

This course is based on the PA Core Standards. Five mathematical domains are taught throughout the school year: operations and algebraic thinking, number and operation in Base Ten, number and operation-fractions, measurement and data, and geometry.

ADVANCED MATH 5

1 CREDIT

This course is based on the PA Core Standards. The course includes advanced conceptual understanding of operations and algebraic thinking, numbers and operations, measurement and data, geometry, the number system, ratios and proportional relationships, expressions and equations, as well as statistics and probability. Students will be using the 5th & 6th grade core curriculum *Go Math* textbook for this course. **PREREQUISITE:** Advanced Math 4 **and/or** teacher recommendation.

GRADE 6

MATH

1 CREDIT

This course is based on the PA Core Standards. Five mathematical domains are taught throughout the school year: ratios and proportional relationships, the number system, expressions, geometry, and statistics and probability.

ADVANCED MATH 6

1 CREDIT

This course includes advanced concepts of ratios and proportional relationships, the number system, expressions and equations, and inequalities, geometry, and statistics and probability. Students will be using the 6th & 7th grade core curriculum *Go Math* textbook for this course. **PREREQUISITE:** Students with an average above 85% in Advanced Math 5 **and** teacher recommendation.

GRADE 7

MSD

1 CREDIT

Math Skills Development - This course is designed as an intervention course to aid students in the mastery of PA Core math skills at the grade 7 level. This is achieved through slower paced instruction and a high degree of repeated drill and practice. Students will incorporate basic math skills to estimate and solve problems that focus on eligible content. In addition, instruction will help students improve upon problem-solving and test taking strategies, as well as increase mathematics proficiency on the PSSA assessment. **PREREQUISITE:** Student with an average of less than **70%** in the prior course **or** teacher recommendation

MATH 7

1 CREDIT

This course includes fundamentals of ratios and proportional relationships, the number system, expressions and equations, geometry, and statistics and probability. **PREREQUISITE:** Students with an average above **70%** in Math 6 **and** teacher recommendation.

ALGEBRA I-7

1 CREDIT

This course includes basic concepts of symbols, terms, expressions, use of variables in solving practical problems in one variable, study of rational numbers, number theory, graphing, probability, and exponents. **PREREQUISITE:** Students with an average above 88% in Math 6 **and** teacher recommendation

GRADE 8

MSD

1 CREDIT

Math Skills Development - This course is designed as an intervention to aid students in the mastery of PA Core math skills at the grade 8 level. This is achieved through slower paced instruction and a high degree of repeated drill and practice. Students will use basic math skills to estimate and solve problems that focus on **eligible content**. In addition, instruction will help students improve upon problem-solving and test taking strategies, as well as increase mathematics proficiency on the PSSA assessment. **PREREQUISITE:** Students with an average of less than 70% in the prior course **or** teacher recommendation.

MATH 8

1 CREDIT

This course includes fundamentals of the number system, expressions and equations, functions, geometry, and statistics and probability. **PREREQUISITE:** Students with an average less than 80% in Math 7 **and** teacher recommendation.

ALGEBRA I-8

1 CREDIT

This course includes basic concepts of symbols, terms, expressions, use of variables in solving practical problems in one variable, study of rational numbers, number theory, graphing, probability, and exponents. **PREREQUISITE:** Students with an average above **80%** in Math 7; students with an average less than 80% in Algebra I-7 and/or failure on the Keystone Exam **and** teacher recommendation.

ANALYTIC GEOMETRY

1 CREDIT

This course emphasizes abstract and logical thinking through inductive and deductive reasoning. Lines, planes, polygons, circles, spheres, and other three-dimensional figures will be used for representing and solving a variety of problems. Advanced concepts also include proofs, congruence, theorems, and other relationships. **PREREQUISITE:** Student must score 93% or higher in Algebra I and/or pass the Algebra I Keystone Exam **and** teacher recommendation. **This course requires a serious time commitment*

SCIENCE

GRADE 5

SCIENCE

1 CREDIT

SEMESTER

In the Science 5 course, the students will study the following units: Scientific Method, Physical Science, Earth Science, Biological Sciences, and Environment and Ecology.

Scientific concepts and terminology will be taught to the students. Students will use science process skills to determine how science impacts their daily lives. Semester content area classes meet every day for a block of two periods.

GRADE 6

SCIENCE

1 CREDIT

The goal of the sixth grade science program is to develop critical and analytical skills through exposure to a variety of scientific areas. The content of the science units include: The Scientific Method, Ecology, Biology Concepts, Earth Science, Physical Science, and Technology in Science. The content of the health units include: Body Systems, Heart Disease, AIDS Education, First Aid, and LifeSkills Curriculum, a substance abuse prevention program.

Students will learn to use the scientific method to solve a variety of problems in the various science content areas as well as be provided with information to make healthy life choices in dealing with substance abuse, AIDS, and general health concerns.

A combination of technology enriched lessons, laboratory sessions, projects, research, and class work will be used to evaluate a student's performance. Students will have 1 semester of Science and 1 semester of Health

GRADE 7

SCIENCE GRADE 7

1 CREDIT

SEMESTER

Science 711: This course will focus on the science process skills along with addressing the PA Core standards of science and technology. Emphasis will be applied to the scientific method, forces, matter, energy, waves, and work. Students in this section will:

*Focus on skill development and application of the scientific method

*Develop an understanding of science concepts

*Illustrate learning through projects, labs, activities, and tests

This class will progress at a pace appropriate to student ability. Semester content area classes meet every day for a block of two periods.

Science 712: This course will focus on the science process skills along with addressing the PA core standards of science and technology. Emphasis will be applied to the scientific method, forces, matter, energy, waves, and work. Students in this section will:

- *Focus on advanced skills and their application
 - *Apply and analyze scientific concepts
 - *Illustrate learning through projects, labs, activities, and tests
- This class will progress at a pace appropriate to student ability.

Placement into this class will be determined by:

Grade average and a placement test.
Semester content area classes meet every day for a block of two periods.

GRADE 8

SCIENCE GRADE 8

1 CREDIT

Science 811: This course will focus on the science process skills along with addressing the PA Core standards of science and technology. Emphasis will be on the scientific method, the classification of living things, genetics, DNA, ecology, geology, and energy.

Students in this section will:

- *Focus on skill development and application
- *Develop an understanding of science concepts through application of the scientific method
- *Illustrate learning through projects, labs and activities

The class will progress at a pace appropriate to student ability.

Science 812: This course will focus on the science process skills along with addressing the PA standards of science and technology. Emphasis will be on the scientific method, the classification of living things, genetics, ecology, geology, and energy.

Students in this section will:

- *Focus on advanced skills and their application of the scientific method
- *Apply and analyze scientific concepts and their implications to society
- *Illustrate learning through advanced projects, labs and activities

The class will progress at a pace appropriate to student ability.

Placement into this class will be determined by:

Grade average and a placement test

HISTORY

GRADE 5

SOCIAL STUDIES

ANCIENT CIVILIZATIONS

1 CREDIT

SEMESTER

Fifth grade social studies will incorporate reading, writing, speaking, and listening skills as students learn about pre-history and the ancient civilizations of Mesopotamia, Egypt, Greece, and Rome. This course will provide students with a solid foundation of map skills. Students will explore how our society's current economy, government, and civic duties have been affected by ancient civilizations, how physical features of the earth, atmosphere, and human activities affect the distribution of population, resources, land use, and industries and what we can learn from past leaders and events, and how they have influenced today's society.

GRADE 6

SOCIAL STUDIES

1 CREDIT

Social Studies teaches students about the world in which they live. In sixth grade, the curriculum will highlight the study of: Canada, Mexico, United States history from 1940 to the present, and map/global skills. The student will acquire knowledge and understanding of the historical, geographical, economic, social and political facets of Canada and Mexico and their interdependence with the United States. The student will utilize map and globe skills correctly during the study of latitude, longitude, elevations, major land and water areas, hemispheres, and map projections. During the study of United States history, the students will gain understanding of social, political and economic events during each decade. Other time is devoted to developing the students understanding of research, projects, and current events.

GRADE 7

U.S. HISTORY I

1 CREDIT

SEMESTER

U.S. History 711

The 7th Grade US History course will discuss the emergence and foundation of the United States, from its Native American origins, through colonization, and eventually Revolution. Course units will focus on how early Americans handled times of drastic change and how the decisions and events that took place still affect the world today.

U.S. History 712:

Honors Qualifications

To qualify for Honors History in 8th Grade, students must maintain *at least* a 95% average for the course, as well as average *at least* a 95% for summative assessments.

****STUDENTS MUST QUALIFY IN BOTH SCIENCE AND HISTORY TO BE RECOMMENDED FOR 8TH GRADE HONORS****

Summative assessments include Unit, Midterm, and Final exams

GRADE 8

U.S. HISTORY II

1 CREDIT

US History 811: This course is a survey of United States History from George Washington's Presidency through World War I. Emphasis is placed on the topics of formation and establishment of our early government, westward expansion, the Industrial Revolution, causes and effects, events and important people of the Civil War and WWI. Students in this section will:

*Focus on critical reading skills and an understanding of secondary sources

*Receive opportunities for enrichment

*Develop a basic understanding of United States History

*Participate in group activities, projects and homework assignments

The class will progress at a pace appropriate to student ability.

US History 812: This course is a survey of United States History from George Washington's Presidency through World War I. Emphasis is placed on the topics of formation and establishment of our early government, westward expansion, the Industrial Revolution, causes and effects, events and important people of the Civil War and WWI. Students in this section will:

- *Read and interpret primary and secondary source documents in addition to their text book
 - *Complete independent research for class projects
 - *Participate in class discussions and lectures
 - *Develop a thorough understanding of United States History
 - *Participate in group activities, projects, and homework assignments
- The class will progress at a pace appropriate to student ability.

Placement into this class will be determined by:

Grade average and a placement test

FINE ARTS DEPARTMENT

CHORUS - GRADE 5

ALL YEAR

Grade 5 students will focus on music written in unison or two-part harmony. Emphasis will be placed on proper singing techniques such as: pitch accuracy, rhythmic accuracy, vocal placement, proper breathing, diction, projection, and proper posture. This course is required and will meet twice during every 7-day rotation.

BAND - GRADE 5

ALL YEAR

Grade 5 band is for students beginning instrumental studies. It will focus on proper tone production, reading music notation, pitch recognition, posture, ensemble awareness, and instrument care. Students will be scheduled for individual and/or small sectional rehearsals and full ensemble rehearsals. Participation in the program is not mandatory but is highly recommended to students who have shown ability playing the recorder in the instrumental awareness class in grade 4.

CHORUS - GRADE 6

ALL YEAR

Students will focus on music written in unison or two-part harmony. Emphasis will be placed on the vocal techniques of: pitch accuracy, rhythmic accuracy, vocal placement, breath control, diction, projection, and posture. This course is required and will meet twice during every 7 day rotation.

BAND - GRADE 6

ALL YEAR

Grade 6 band is designed to continue individual growth of student instrumentalists through selected band music for fall and spring performances. Emphasis is placed on individual development as a musician, through lessons and sectional rehearsals. All band rehearsals and lessons will take place during the band/chorus period. New instrumental students are encouraged to participate.

ELECTIVES GRADES 7 & 8

CHORUS - GRADES 7 & 8

ALL YEAR

Students will focus on music written in two and three part harmony. Emphasis will be placed on the vocal techniques of: pitch accuracy, rhythmic accuracy, vocal placement, breath control, diction, projection, and posture. Students will also have the opportunity to sing in other languages and to perform music representing a wide variety of musical styles.

BAND - GRADES 7 & 8

ALL YEAR

The middle school band program is designed to further develop skills of instrumentalists preparing them for a future in the senior high bands. School emphasis is placed on the development of the individual's skill level through music for fall and spring performances. Instrumental lessons are included as part of this course and are scheduled during the school day. All grade 7 students who have played band in grade 6 are strongly encouraged to participate.

VOCAL ATTRACTION

ALL YEAR

Grade 7 and 8 chorus members **must audition to be a member of this Show Choir.**

Students will work on SAB music (a majority of which will be choreographed). Emphasis will be placed on taking the vocal abilities of these students to a higher level. These abilities will include pitch accuracy, vocal placement, rhythmic accuracy, breath control, phrasing, diction, projection, singing in other languages, posture, and overall stage presence.

Students will perform a variety of musical styles at school concerts and various community events throughout the year.

Grade 8 members will be scheduled for the class on 6 of their rotation days. Teacher will work out time to see Grade 7 members.

NEWSPAPER

QUARTER

In Middle School Newspaper, grades 7th & 8th, students brainstorm, plan, compose, and revise their own articles with the help of the instructor. Students learn and practice skills around interviewing, finding and incorporating research, writing professional emails, and online publication

CREATIVEWITING II

SEMESTER

Grade level – 7th or 8th grade Creative Writing II is more of a self-paced class where students will mainly work on independent projects with teacher guidance and help. The student and teacher will conference to help the student guide his or her writing in appropriate direction. Projects will be based on student interest and abilities with the purpose to challenge their writing skills and creativity.

GRADE 7

INTRODUCTION TO ART

SEMESTER

Introduction to Art is intended to familiarize students with the elements and principles of design through their application to art projects in drawing, painting, mixed-media, sculpture, and collaborative collage. A survey of contemporary artists and art forms will be incorporated into each project. The joy of self-expression and an awareness of the impact of the visual arts on our lives are additional goals of this class.

INTRO TO SPORTS STATISTICS

QUARTER

The class will discuss relevant statistics from multiple sports including football, baseball, basketball, hockey, and other sports. Students will take an in-depth look at how to calculate common statistics and development, and application of analytics in sports. Students will learn about the application of analytics in sports for purposes of in-game strategy, player performance, team management, sports operations, and many other situations.

STEAM

QUARTER

STEAM is an elective that will integrate Science, Technology, Engineering, Art, and Mathematics. Students will be introduced to design and engineering concepts through the use of robotics. The students with the use of Lego Mindstorms learn how to build and code robots to carry out various functions. Although the course is only a quarter course, students will have opportunity to join an after-school robotics club.

INTRO TO COMPUTER PROGRAMING

USING SCRATCH

QUARTER

In this course, students will be introduced to the world of computer science by learning how to create animations, computer games, and interactive projects. The students will use Scratch, a visual programming language developed at MIT, to learn fundamental programming concepts such as variables, loops, conditional statements, and event handling. This course will show students how to make and import objects, create audio recordings, and use them to develop interactive projects. Through the use of the program, students will learn how to use math and computer code to think creatively.

CREATIVE WRITING

QUARTER

Creative Writing is a course that is designed to give students the opportunity to think and write creatively beyond their regular English or ELA class. Students will explore various genres of writing, including fiction (shorter pieces as well as the opportunity to write longer stories), non-fiction (autobiographies, memoirs, etc.), poetry, plays, "mixed-media" pieces, journal writing, etc. Though there will be some required assignments, students will be encouraged to explore original ideas and create original pieces. There will be opportunities to publish and share work throughout the course as well. This class would be most appropriate for the student who enjoys writing for their own purposes or who enjoys expressing themselves through the written word.

GRADE 8

VISUAL ARTS AND MULTIMEDIA

QUARTER

Learn about one of the newest and fastest growing sector in the visual arts. Edit your own drawings and photographs using computer software. Create your own original graphic design projects. Produce your own videos with music and special effects. Learn how you could do these things for a career in the visual arts

SCIENCE AND ENGINEERING**QUARTER**

In this course students will be taking a hands-on approach to discovering and studying different scientific topics such as matter, elements, compounds, mixtures, measurement, density, pH, energy, electricity, and circuits. Student will then use those topics and relate them to their effect on engineering design. Furthermore, multiple engineering and design challenges will be given to the student to challenge their thinking. (Class size limited to 15 students)

TECHNOLOGY EDUCATION**QUARTER**

In this course students will focus on the design process. Brainstorming, modeling, testing, evaluating, and modifying will be used to apply the design process in the invention or innovation of a new product, process, or system. Students participate in engineering design activities to understand how criteria, constraints, and processes affect design. Throughout the design process, students will develop skills to communicate design information. Students will learn how various inventions and innovations impact their lives. (Class size limited to 15 students)

SPANISH I**ALL YEAR**

This is an introductory course in communicating in Spanish. Oral work is stressed with basic dialogues, variations, practices, and conversation. Short assignments from the text stress grammatical, Structural, and oral comprehension of the language. Customs of Spanish-speaking people are related to the units. *Students taking this course will receive 1 HS credit. This course will not factor into the HS GPA. Students will be scheduled into classes with High School students.* **PREREQUISITE:** English 812 students have first option with teacher recommendation and at least an 85% in English 7. (Class size limited/dependent on High School class size)

MIDDLE SCHOOL YEARBOOK**ALL YEAR**

In this class, students will be planning, designing, producing, financing, and marketing the annual edition of the Tyrone Area Middle School *Eagle*. Students will learn organizational skills, journalism, computer skills, budgeting, and marketing skills to produce and sell the yearbook and its supplement. Teacher recommendation is needed for this class. (Class size limited to 17 students)

TECHNOLOGY/COMPUTER SCIENCE**SEMESTER**

In this course students will explore a variety of computer languages. Students will begin the semester by researching the job options and job outlook in the computer science field. Students will then be introduced to html and css to gain a basic understanding of website development. The remainder of the course will be dedicated to learning the computer language Python. Students will identify a real world problem and work in groups to develop a solution to the problem they identified using Python. (Class size limited to 15 students)

HEALTH SERVICES**QUARTER**

Health Services is the career exploratory class that examines careers in the health field. We begin by looking at professional appearance, personal characteristics, health care settings, and education levels. From there, we look at the many jobs in the health care field from Therapeutic, Diagnostic, communication-Information, Biotechnology, and Supportive Career paths. Hands-on activities are included to demonstrate the duties of some jobs. A field trip is included to a local health care facility to see it all come together. (Class size limited to 15 students)

METELWORKING AND MANUFACTURING

QUARTER

Metalworking and Manufacturing introduces the student to different careers in the metal fabrication field. The student will be introduced to different occupations as well as some of the skills necessary in these areas. Instruction is project-based. Students will complete projects that include a sampling of the knowledge and skills involved in this industry. Students will choose a career, research it, and report to the class as one of their projects. Integration of science and math skills related to the Metalworking field will be part of this project-based program. Instruction will include theory, hands-on activities, and class presentations. (Class size limited to 15 students)

SCIENCE, AG, & NATURAL RESOURCES

QUARTER (only 2 qtrs. Available)

This course emphasizes the development of competencies in plant science, animal science, food science, rural and urban living, leadership, basic metal and wood working operations, soils, and natural resource conservation. The students will also identify emerging technologies as well as explore career opportunities in the field of agriculture. Subject materials include plants, animals, floral design, wildlife and natural resources, Ag mechanics, and the youth leadership organization - FFA. This is a hands-on lab based course where students will be applying classroom information into their projects which may include: growing plants, flower arranging, wood shop projects, welding, food tasting, wildlife conservation role play and small animal awareness. (Class size limited to 15 students)

ROTATIONS

GRADE 5 – SEVEN DAY ROTATION

Five courses included in the rotation are: **Chorus, Band/General Music, Art, PATHS Curriculum, and Physical Education.** With the exception of Chorus and Phys. Ed., each course meets once every seven days all year.

GENERAL MUSIC 5 (and/or Band)

1 DAY

Grade 5 General Music will focus on the instruments of the orchestra and their family classifications. Students will also learn about text painting which is when a composer uses music to tell a story without the use of words or pictures. During these activities, students will be asked to create stories and drawings that relate to the music that they are listening too.

Band (and/or General Music)

1 DAY

Grade 5 band is designed to continue individual growth of student instrumentalists through selected band music for fall and spring performances. Emphasis is placed on individual development as a musician, through lessons and sectional rehearsals. All band rehearsals and lessons will take place during the band/chorus period. New instrumental students are encouraged to participate.

PATHS CURRICULUM

1 DAY

The PATHS (Promoting Alternative Thinking Strategies) Curriculum is a program for students created by educators and counselors designed to facilitate the development of self-control, emotional awareness, peer relations, interpersonal problem-solving, healthy habits. In addition, we have implemented the program Second Step into our PATHS curriculum. In collaboration with the elementary school, Second Step is an interactive program geared toward helping students explore, learn, and devise strategies to help them succeed socially, emotionally, and academically.

PHYSICAL EDUCATION

2 DAYS

This course is required yearly for all students. It is designed to increase individual physical and social growth through sports, games, and competition. Emphasis is put on team sports and large motor movement activities e.g. touch football, soccer, swimming, basketball, volleyball, softball, and aerobics. Students are expected to maintain their own personal safety and the safety of others at all times. Students are encouraged to create and maintain a high level of physical fitness to meet the demands of everyday living. Participation and sneakers are **mandatory** for all physical education students.

Chorus

2 DAYS

Students will focus on music written in unison or two-part harmony. Emphasis will be placed on the vocal techniques of: pitch accuracy, rhythmic accuracy, vocal placement, breath control, diction, projection, and posture. This course is required and will meet twice during every 7 day rotation.

ART

1 DAY

The middle school art program for Grade 5 provides an integrated and comprehensive curriculum with opportunities for the students to become familiar with various art forms. The course will continue to develop vocabulary as well as increase their knowledge base of art skills, techniques and concepts required in creating art forms. Students will learn about contemporary art and understand the cultural messages wrapped up in works of art. Students will practice skills in analyzing, critiquing, and drawing reasoned conclusions about what they see and hear and then use this knowledge to enhance their own creative expression

GRADE 6 – SEVEN DAY ROTATION

Five courses included in the rotation are: **Art, Band/Chorus, General Music, Physical Education, and Technology**. With the exception of Chorus and Phys. Ed., each course meets once every seven days all year.

ART

1 DAYS

The middle school art program for Grade 6 provides an integrated and comprehensive curriculum with opportunities for the students to become familiar with various art forms. The course will continue to develop vocabulary as well as increase their knowledge base of art skills, techniques and concepts required in creating art forms. Students will learn about contemporary art and understand the cultural messages wrapped up in works of art. Students will practice skills in analyzing, critiquing, and drawing reasoned conclusions about what they see and hear and then use this knowledge to enhance their own creative expression.

GENERAL MUSIC 6

1 DAY

Students will study the basic elements of pitch and rhythmic recognition. They will also focus on the use of dynamics in musical composition. By the end of this course, students will have a basic understanding of how to read and interpret music.

PHYSICAL EDUCATION

2 DAYS

This course is required yearly for all students. It is designed to increase individual physical and social growth through sports, games, and competition. Emphasis is put on team sports and large motor movement activities e.g. touch football, soccer, swimming, basketball, volleyball, softball, and aerobics. Students are expected to maintain their own personal safety and the safety of others at all times. Students are encouraged to create and maintain a high level of physical fitness to meet the demands of everyday living. Participation and sneakers are **mandatory** for all physical education students.

TECHNOLOGY 6**1 DAY**

The goal of this course is for students to become computer literate so they can successfully use critical skills in various technology areas such as keyboarding and word processing. Microsoft Office applications, internet skills, and applied technology.

BAND**1 DAY**

Grade 6 band is designed to continue individual growth of student instrumentalists through selected band music for fall and spring performances. Emphasis is placed on individual development as a musician, through lessons and sectional rehearsals. All band rehearsals and lessons will take place during the band/chorus period. New instrumental students are encouraged to participate.

CHORUS**2 DAYS**

Students will focus on music written in unison or two-part harmony. Emphasis will be placed on the vocal techniques of: pitch accuracy, rhythmic accuracy, vocal placement, breath control, diction, projection, and posture. This course is required and will meet twice during every 7 day rotation.

GRADE 7 – TEN DAY ROTATION

Four courses included in the rotation are **Tyrone History, Life Skills I, Physical Education, and Technology**. With the exception of Phys. Ed., each course meets twice in a 10 day rotation, all year.

TYRONE HISTORY**2 DAYS**

The 7th Grade elective will discuss the foundation, growth, and decline of Tyrone, from its agricultural roots to its modern issues. Course units will focus on how early Tyronians handled times of drastic change and how the decisions and events that took place still affect Tyrone today. A special emphasis will be placed on locations of both past and present and the significant role they place on Tyrone history

LIFE SKILLS I**2 DAYS**

Life Skills is a comprehensive prevention program that is designed to target the primary causes of substance abuse, particularly tobacco and alcohol, by teaching a combination of health information, general life skills, and drug resistance skills. Students will also complete units on decision making skills, peer and media influences, bullying prevention, character education, internet safety, and career education.

TECHNOLOGY 7**2 DAYS**

This course builds upon learning objectives related to technology mastered in earlier grades. Designed to promote 21st century learning skills, this course will focus on advanced Microsoft Applications, multimedia presentations, internet skills, and collaboration/communication skills.

PHYSICAL EDUCATION

4 DAYS

This course is required yearly for all students. It is designed to increase individual physical and social growth through sports, games, and competition. Emphasis is put on team sports and large motor movement activities e.g. touch football, soccer, swimming, basketball, volleyball, softball, and aerobics. Students are expected to maintain their own personal safety and the safety of others at all times. Students are encouraged to create and maintain a high level of physical fitness to meet the demands of everyday living. Participation and dressing in t-shirt, shorts/sweatpants, and tennis shoes is **mandatory** for all physical education students.

GRADE 8 – TEN DAY ROTATION

Four courses included in the rotation are: Exploratory **Health 8, Life Skills II, Physical Education, and Art** With the exception of Phys. Ed., each course meets twice every 10 days all year.

EXPLORATORY HEALTH 8

2 DAYS

Exploratory health is a study of the digestive system and nutrition. Along with knowing the basic structure and function of the digestive system, students will be exposed to a variety of nutrition related topics including, but not limited to, major and minor nutrients, the interrelation of the digestive system/nutrition to the functioning of other body systems, nutrient deficiencies and toxicities, the danger of eating added sugars, food labels and fad diets. Students will look at the recommended dietary allowances for teenagers and calculate a variety of base line measurements including BMR, BMI, resting heart rate, caloric requirements and how many calories are burned during exercise.

LIFE SKILLS II

2 DAYS

Life Skills II is a continuation of the Life Skills I drug and alcohol prevention program. The purpose of this booster curriculum is to reinforce the material learned in grades 6 and 7. Students will review important concepts and have an opportunity to practice specific skills. A unit on career development and exploration is included.

PHYSICAL EDUCATION

4 DAYS

This course is required yearly for all students. It is designed to increase individual physical and social growth through sports, games, and competition. Emphasis is put on team sports and large motor movement activities e.g. touch football, soccer, swimming, basketball, volleyball, softball, and aerobics. Students are expected to maintain their own personal safety and the safety of others at all times. Students are encouraged to create and maintain a high level of physical fitness to meet the demands of everyday living. Participation and dressing in t-shirt, shorts/sweatpants, and tennis shoes is **mandatory** for all physical education students.

Art 8

2 DAYS

8th grade Visual Arts classes have been designed to expose students to a variety of art media and techniques. Students will consider how art is used to express our ideas and to impact a viewer. Topics covered: Elements and principles of Art, Drawing and painting: 2-D concepts, proportions, value, texture, mixed media, and art history and contemporary art.