



ROCORI Middle School



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***Please note that courses listed in this guide are subject to change.**

Middle School Credit Requirements

Middle school students will be enrolled in classes to accumulate 27 credits throughout grades 6, 7, and 8. From the total 27 credits, 18 credits will be earned from required core academic subjects, 4 credits from required elective courses, and 5 credits from other elective courses of the student's choosing. Students may be placed into a math or reading skills class based on their performance on recent standardized assessments. Skills class will take the place of elective classes.

Core Subject Area

English
Math
Science
Social Studies

Credits – 18

1.5 each year for a total of 4.5
1.5 each year for a total of 4.5
1.5 each year for a total of 4.5
1.5 each year for a total of 4.5

Elective Courses

6th Grade

Credits – 9

Band/Choir/General Music – 1.5 credits
Ed Tech - .25 credits
Health - .25 credits
PE - .5 credits
Visual Arts - .25 credits
Reading - .25 credits

7th Grade

PE 7/8 - .25 credits
World Cultures - .25 credits
Other (student choice) - 2.75 credits

8th Grade

Career Explorations - .25 credits
Teen Choices - .25 credits
PE 7/8 - .25 credits
Other (student choice) - 2.25 credits

Elective Course Offerings

Core Subject Electives

*Creative Writing
Famous Court Trials
Fantasy Math/Sports Math
Game of Life
Genius Hour
History Day
Hook, Line, and Thinker
Human Body
Logic and Problem Solving
Modern US History Through Film
Mysterious Fiction
Playing Games with Math
Reading 6 – required 6th grade
Science Fiction and Fantasy
Speech and Debate
STEM
World History in Action

Global

Career Exploration – required 8th grade
Passport to Latin America and Spain
Spanish 1 (8th grade only)
World Cultures – required 7th grade

Agriculture

Intro to Agriculture
Natural Resources
Plant Science
Small/Companion Animal Science

Art

Advanced Drawing and Painting
3D Art
Beginning Drawing and Painting
Build Your Own Art Class
Visual Arts – required 6th grade
World Crafts

PE/Health

*Fitness Fun for Females
Health – required 6th grade
*IDLS
PE 6 A – required 6th grade
PE 6 B – required 6th grade
*PE 7/8 – required 7th and 8th grade
*Speed and Strength

Note: One term of PE 7/8 is required in both 7th and 8th grade. Other PE classes can be taken as an elective class.

FACS

Room of My Own
Childhood Development and Care
Clothing Design and Construction
Intro to Foods
Nutrition and Healthy Eats
Teen Choices – required 8th grade

Technology

Advanced Keyboarding
Digital Design 1
Digital Design 2
Ed Tech – required 6th grade
*Keyboarding
Media Production 1
Media Production 2
Microsoft Office
PLTW Design
PLTW Modeling
PLTW Robotics 1
PLTW Robotics 2

Music

Band
Choir
General Music (Gr. 6 only)
*Musical Theater

*These courses can be taken in both 7th and 8th grade for credit

Important Course Information –

Sixth grade students will be scheduled into courses with other sixth grade students. Sixth grade students have the opportunity to choose between band, choir, or general music while the other courses have been assigned to them.

Seventh and eighth grade students will be placed into required courses with their grade level peers. Elective courses will be mixed with both seventh and eighth grade students.

Course Placement and Progression

The first step in providing a meaningful education for student is the determination of appropriate coursework. The faculty of ROCORI schools will utilize data gained from student records to determine the appropriate placement of students in core academic subjects. The school's Response to Intervention (RtI) Team has an objective data-driven process to place students in the appropriate core courses.

Math Course Progression: Many students and parents are concerned with math course placement in the middle school and how it translates to future opportunities in the high school. The chart below identifies the typical progression of math courses in the different tracks. Students who qualify to take pre-algebra in grade 6, algebra in grade 7, and geometry in grade 8 have consistently performed at or above the 90th percentile on standardized assessments, including their three most recent standardized assessments. RMS uses data from assessment results and trends for individual students when placing them math courses. RMS uses data from the Minnesota Comprehensive Assessments (MCAs) and the FAST test.

		ROCORI High School Mathematics Progression	
Level	Regular	Advanced Math	Qualify for College Level Math gr 10
Grade			
6	Math 6		
	Pre-Algebra		
7	Pre-Algebra		
	Algebra I		
8	Algebra I	Algebra I	Geometry
9	Non-Linear Algebra	Advanced Geometry	Advanced Algebra II
10	Geometry	Algebra II or Advanced Algebra II	Introduction to Statistics (CEP) and Trigonometry*
11	Algebra II and Elementary Probability and Statistics	Trigonometry and/or Elem Prob & Stats OR College Trig and/or College Prob & Stats	College Algebra and/or Pre-Calculus* or Short Course Calculus
12	Trigonometry, Pre-Calculus or Consumer Math	Pre-Calculus or College Short Course Calc. or College Algebra	College Algebra or Short Course Calculus or Pre-Calculus or Calculus I*

* Class selection depends on Accuplacer test score achieved. Pre-Calculus is the perfect class for those who do not qualify for College Algebra, but wish to take a math class that will prepare them further for college.

Note: All students are required to take either Elementary Probability and Statistics or Introduction to Statistics (CEP) in high school.

ENGLISH

English 6	Course Numbers: 161, 162, 163	Grade Level: 6
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LENGTH OF COURSE: 6 Terms

CREDITS: 1.5

COURSE DESCRIPTION: Required

This is a 6th grade English course where students will enhance their skills in the areas of word recognition, vocabulary, reading comprehension, and literature.

Power Standards:

- Identify the exposition, rising action, climax, falling action, and resolution to determine the author's purpose.
- Use literary elements to make connections to a variety of texts.
- Identify the main idea and support it with details.
- Use context clues to find and understand answers to questions.
- Break apart new words to understand how they are used in the text.

English 7	Course Numbers: 171, 172, 173	Grade Level: 7
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LENGTH OF COURSE: 6 Terms

CREDITS: 1.5

COURSE DESCRIPTION: Required

7th grade English explores the world of literature through reading, viewing, listening, and writing. This course encourages cooperative learning. Students will be asked to understand, make decisions, and accept responsibility for their individual learning process. This class will expose students to a variety of literary genre.

Power Standards:

- Making connections and drawing conclusions based on provided information, recognizing facts versus opinions, understanding the author's point of view, purpose, audience and message.
- Using and recognizing the elements of fiction, utilizing character analysis to understand the effect on plot.
- Recognizing, identifying, using, and understanding figurative language.
- Writing in a variety of formats, including: poetry, stories, essays, editorials, letters, directions, and research reports.
- Understanding and using the conventions of standard English.

English 8	Course Numbers: 181, 182, 183	Grade Level: 8
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LENGTH OF COURSE: 6 Terms

CREDITS: 1.5

COURSE DESCRIPTION: Required

English 8 is a course designed to build skills in the reading and study of literature, vocabulary, listening and speaking, and in clear and creative written communication. Students will read and write short stories, read class and independently-chosen novels, read and write non-fiction essays, and read and write poetry.

Power Standards:

- Paraphrase the main ideas and supporting details.
- Distinguish facts from opinions.
- Critically read to determine an author's purpose, point of view, audience and message/theme.
- Analyze the effects of sound, form, and figurative language in prose and poetry.
- Determine the meaning of unknown words by using a dictionary and/or context clues.
- Use quality speaking and listening skills in discussions and in the sharing of writing.
- Become increasingly proficient in correcting grammatical errors, understanding sentence parts, and utilizing Standard English in writing.

English Electives

Creative Writing	Course Number: 154	Grade Level: 7 and 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective **This class can be taken in both 7th and 8th grade**

This elective will explore the writing process and creativity. Students will be asked to write in a variety of formats and on a variety of subjects – different genres will be addressed from one year to the next. Students will discuss and utilize many of the editing and publishing aspects of writing to enhance the experience.

Power Standards:

- Write narratives and other creative texts to develop real or imagined experiences or events using effective techniques.
- Use a writing process to develop and strengthen writing including planning, drafting, revising, editing, rewriting, and publishing.
- Demonstrate an understanding of figurative language, figures of speech, and word nuances.

Science Fiction and Fantasy	Course Number: 158	Grade Level: 7 and 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective

If you enjoy stories and books about things that seem too fantastic to be real, this is the class for you! We will be reading and exploring science fiction literature through novels and short stories, plus viewing some films that utilizes this genre. Because this is an English-based class, we will also write our own science fiction/fantasy short stories. Come have fun and explore the worlds beyond our own, perhaps we will find our own Utopia!

Power Standards:

- Read closely to determine what the text says explicitly and to make logical inferences from it.
- Determine central ideas or themes of a text and analyze its development over the course of the text.
- Analyze how individuals, events and ideas develop and interact over the course of a text.

Mysterious Fiction	Course Number: 151	Grade Level: 7 and 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective

Students will learn about the genre of mystery. Students will read, view, and listen to various mysteries, including tales of horror and detective stories, in the forms of interactive plays, original texts, and game and movie adaptations of classic mysteries. Students will also write their own mystery plays or stories and present them in class.

Power Standards:

- Analyze how particular lines of dialogue or incidents in a story or drama propel the action, reveal aspects of a character, or provoke a decision.
- Analyze how differences in points of view of the characters and audience create such effects as suspense and dramatic irony.
- Write narratives to develop imagined experiences or events using effective technique, relevant descriptive details, and well-structured event sequences.

Speech and Debate	Course Number: 155	Grade Level: 7 and 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective

Students will develop and perform different types of speeches and will explore the elements of speeches written for a variety of purposes.

Speeches will range from informative to persuasive to “great” speeches to interpretive literary speeches. Students will also engage in discussion and learn and practice the procedures of debate.

Power Standards:

- Engage effectively in a range of collaborative discussions.
- Analyze the purpose of information presented in diverse media and formats and evaluate the motives behind its presentation.
- Delineate a speaker’s argument and specific claims, evaluating the soundness of the reasoning and relevance and sufficiency of the evidence and identifying when irrelevant evidence is introduced.
- Adapt speech to a variety of contexts and tasks.

Famous Court Trials	Course Number: 156	Grade Level: 7 and 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective

Do you find yourself fascinated with anything that has to do with the law? Would you like to explore how the American Court System has changed through the outcomes of a wide variety of famous court trials. In this course we will be looking at documentaries and films that depict the real-life court cases that have shaped our justice system, starting with the Salem Witch Trials through the most current trials today. We will also look at some law-changing Supreme Court trials. This class includes reflecting and writing about what we learn, discussions on the outcomes, and some independent work.

Power Standards:

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- ?

Reading 6	Course Number: 140	Grade Level: 6
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Required

In this course students will explore both fiction and nonfiction text in a nontraditional setting. Students will explore and exercise reading skills through activities and group activities. Special emphasis will be put on: Reading Fluency, Vocabulary Building, Elements of Plot, and Figurative Language.

Power Standards:

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- ?

MATH

Grade 6:

Math 6	Course Numbers: 261, 262, 263	Grade Level: 6
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LENGTH OF COURSE: 6 Terms

CREDITS: 1.5

COURSE DESCRIPTION: Required

This is the regular math class for grade six. This course is a 6th grade math course where students will learn new math skills and expand upon those introduced in 5th grade in the areas of Number and Operations, Algebra, Geometry and Measurement, and Data Analysis and Probability.

Standards:

- Solving problems using decimals, fractions, percent and ratios.
- Solving equations and inequalities using variables.
- Solving real world problems using probability.
- Use patterns, tables, graphs and rules to solve real world problems.
- Explore geometry, finding missing angles, perimeter, surface area and volume.

Pre-Algebra (Advanced Math)	Course Numbers: 264, 265, 266	Grade Level: 6
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LENGTH OF COURSE: 6 Terms

CREDITS: 1.5

COURSE DESCRIPTION: Required

This is the advanced math course for grade six. This course will emphasize algebra readiness by engaging students in a variety of problem solving and reasoning skills. The following concepts will be covered: number sense, integers, solving equations, statistics, and probability.

Standards:

- Read, write, represent and compare positive and negative rational numbers, expressed as integers, fractions, and decimals.
- Calculate with positive and negative rational numbers, and rational numbers with whole number exponents, to solve real-world and mathematical problems.
- Solve real-world problems using variables and representing mathematical equations both graphically and numerically.
- Use mean, median, and range to draw conclusions about data and make predictions.
- Calculate probabilities and reason about probabilities using exponents to solve real-world and mathematical problems.

Grade 7:

Pre-Algebra	Course Numbers: 271, 272, 273	Grade Level: 7
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LENGTH OF COURSE: 6 Terms

CREDITS: 1.5

COURSE DESCRIPTION: Required

This is the regular math class for grade seven. This course will emphasize algebra readiness by engaging students in a variety of problem solving and reasoning skills. The following concepts will be covered: number sense, integers, solving equations, statistics, and probability.

Standards:

- Read, write, represent and compare positive and negative rational numbers, expressed as integers, fractions, and decimals.

- Calculate with positive and negative rational numbers, and rational numbers with whole number exponents, to solve real-world and mathematical problems.
- Solve real-world problems using variables and representing mathematical equations both graphically and numerically.
- Use mean, median, and range to draw conclusions about data and make predictions.
- Calculate probabilities and reason about probabilities using exponents to solve real-world and mathematical problems.

Algebra (Advanced Math)	Course Numbers: 274, 275, 276	Grade Level: 7
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LENGTH OF COURSE: 6 Terms

CREDITS: 1.5

COURSE DESCRIPTION: Required

This is the advanced math class for grade seven. This course will emphasize high school readiness by exposing students to a variety of algebra concepts. This will include: solving equations, factoring, graphing, functions, line of best fit, inequalities, solving systems and radicals.

Standards:

- Read, write, compare, classify and represent real numbers, and use them to solve problems in various contexts.
- Represent real-world and mathematical situations using equations and inequalities involving linear expressions. Solve equations and inequalities symbolically and graphically. Interpret solutions in original context.
- Interpret data using scatterplots and approximate lines of best fit. Use lines of best fit to draw conclusions about data.

Grade 8:

Algebra	Course Numbers: 281, 282, 283	Grade Level: 8
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LENGTH OF COURSE: 6 Terms

CREDITS: 1.5

COURSE DESCRIPTION: Required

This is the regular math class for grade eight. This course will emphasize high school readiness by exposing students to a variety of algebra concepts. This will include: solving equations, factoring, graphing, functions, line of best fit, inequalities, solving systems and radicals.

Standards:

- Read, write, compare, classify and represent real numbers, and use them to solve problems in various contexts.
- Represent real-world and mathematical situations using equations and inequalities involving linear expressions. Solve equations and inequalities symbolically and graphically. Interpret solutions in original context.
- Interpret data using scatterplots and approximate lines of best fit. Use lines of best fit to draw conclusions about data.

Geometry (Advanced Math)	Course Numbers: 284, 285, 286	Grade Level: 8
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LENGTH OF COURSE: 6 Terms

CREDITS: 1.5

COURSE DESCRIPTION: Required

This is the advanced math class for grade eight. In Geometry, students will develop mathematical concepts of arithmetic and algebra while studying two and three-dimensional relationships. Students will study points, lines, circles, triangles, polygons, solid figures, and deductive proofs.

Standards:

- Construct logical arguments and write proofs of theorems and other results in geometry.
- Apply properties of parallel and perpendicular lines, angles, congruent and similar figures, polygons, circles, and trigonometric ratios to solve problems.

Math Electives

Genius Hour	Course Number: 254	Grade Level: 7 and 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective

Is there something you have always wanted to learn more about? During this course, you will get the opportunity to investigate a topic you want to learn more about. Then, you will have the chance to create something to show what you have learned. The possibilities are endless for what you may learn or create during this class. This course is capped at 20 students.

Standards:

- Conduct short research projects to answer a question, drawing on several sources and generating additional related, focused questions for further research and investigation.
- Gather relevant information from multiple print and digital sources, using search terms effectively; assess the credibility and accuracy of each source; and quote or paraphrase the data and conclusions of others while avoiding plagiarism and following a standard format for citation.
- Include multimedia components and visual displays in presentations to clarify information.

The Game of Life	Course Number: 251	Grade Level: 7 and 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective

Do you have what it takes to make it in the real world? This course is designed to explore the financial logistics of life on your own (i.e. Plan for college, find a job, and purchase all of life's necessities).

Standards:

- Calculate with positive and negative rational numbers, and rational numbers with whole number exponents, to solve real-world and mathematical problems.
- Read, write, represent and compare positive and negative rational numbers, expressed as integers, fractions and decimals.

Fantasy Math/Sports Math	Course Number: 252	Grade Level: 7 and 8
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Fall/Winter

LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective

You will utilize professional sports data to explore math concepts. Depending on the time of year the course is taught, you could be using players and statistics from the NFL, NBA, or MLB. During the first two trimesters, you may draft your own team and compete against your classmates in a fantasy league. During the third trimester, you may explore March Madness and the start of the baseball season. Concepts covered will include mean, median, and range. We will also explore different ways to compare data by making line graphs, bar graphs and circle graphs.

Standards:

- Display and interpret data in a variety of ways, including circle graphs and histograms.
- Use mean, median and range to draw conclusions about data and make predictions.

Math Games	Course Number: 253	Grade Level: 7 and 8
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Winter/Spring

LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective

Are you not convinced Math is a part of the real world? How about it in games! In this course you will explore the different ways that Math is incorporated into timeless traditional games and newer board games. Be prepared to work on computational Math skills like you never have before!

Power Standards:

- Calculate with positive and negative rational numbers, and rational numbers with whole number exponents, to solve real-world and mathematical problems.
- Read, write, represent and compare positive and negative rational numbers, expressed as integers, fractions and decimals.

Logic and Problem Solving	Course Number: 255	Grade Level: 7 and 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective

Interested in improving your problem solving, logical reasoning, and overcoming challenges? This course will teach positive ways to overcome obstacles with daily hands-on opportunities to practice your grit. Give up on things easily? Well, there's no complaining in this class! Try learning a few new strategies that will make your mindset about challenges in any areas of your life more positive! *"You'll never be bored when you try something new. There's really no limit to what you can do!"* – Dr. Suess. Areas covered could include: Logic puzzles, Tangrams, Escape Rooms/Deciphering Codes, Wooden Logical Puzzles, Brainteasers, Crossword Puzzles, Sudoku/KenKen Puzzles, Clue/Who Done it?, Minute to Win It/Team Building Activities, and Mastermind, Wordle, and Nerdle.

Power Standards:

- Develop critical thinking skills to increase problem solving strategies and deductive reasoning.
- Determine the reasonableness of an outcome.
- Use reasoning about multiplication and division to solve ratio and rate problems.
- Use proportional reasoning to solve problems involving ratios in various contexts.

SCIENCE

Earth Science	Course Numbers: 361, 362, 363	Grade Level: 6
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LENGTH OF COURSE: 6 Terms

CREDITS: 1.5

COURSE DESCRIPTION: Required

Earth science incorporates learning through a variety of activities with an emphasis on hands-on learning. The course includes lessons in safety, metrics, astronomy, geology, and weather. This class covers the relationships between events and characteristics of the earth's structure.

Standards:

- Science is a way of knowing about the natural world and is characterized by empirical criteria, logical argument and skeptical review.,
- Scientists and engineers use models to study, predict, test, and apply their learning.
- Forces within the Earth create geologic formations that can be identified through observations of patterns.
- In order to maintain and improve their existence, humans interact with and influence Earth systems.

Life Science	Course Numbers: 371, 372, 373	Grade Level: 7
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LENGTH OF COURSE: 6 Terms

CREDITS: 1.5

COURSE DESCRIPTION: Required

Life science incorporates learning through a variety of activities with an emphasis on hands-on learning. The course includes lessons in safety, metrics, genetics, evolution, classification, botany, zoology, and ecology. Life Science class surveys the diversity of living things with an emphasis on relationships and relatedness between organisms.

Standards:

- Living organisms contain cells that are organized to provide for the necessary functions of life.
- Interactions among organisms allow energy to flow for the support of natural systems.
- Species differentiate through mutations occurring during reproduction.
- The interaction between humans and the environment causes change within both.
- Science is a way of knowing about the natural world and is characterized by empirical criteria, logical argument and skeptical review.

Physical Science	Course Numbers: 381, 382, 383	Grade Level: 8
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LENGTH OF COURSE: 6 Terms

CREDITS: 1.5

COURSE DESCRIPTION: Required

Physical science covers a variety of physical science topics through four main units: Topics of study in Science 6 include the Nature of Science and Engineering, Matter, Forces and Motion, and Energy.

Standards:

- Identify a common engineered system and evaluate its impact on society.
- Substances can undergo physical and chemical changes.
- Motion of an object can be described in terms of speed, direction and change of position.
- Waves involve the transfer of energy without the transfer of matter.

Science Electives

The Human Body	Course Number: 352	Grade Level: 7 and 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective

Through a variety of student-driven investigations, this elective centers upon the study of human systems. Students will improve their knowledge with a diverse array of hands-on activities.

Standards

- Describe how the organs in the respiratory, circulatory, digestive, nervous, skin and urinary systems interact to serve the needs of vertebrate organisms.
- Students will analyze and demonstrate the relationships between the structure and function of tissues, organs, and systems as well as relationships between body systems.
- Compare and contrast the information gained from experiments, simulations, video or multimedia sources with that gained from reading a text on the same topic.

STEM	Course Number: 353	Grade Level: 7 and 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective

In this class, students will work individually and collaboratively to design, engineer, and construct. Students will have the opportunity to enhance their **Science, Technology, Engineering, and Math (STEM)** skills in this educational, yet, exciting class. Teacher and Students will choose from a variety of engaging projects including bridges, cardboard boats, egg drops, etc... Out of pocket expenses may be incurred in this class.

Standards:

- Explain and give examples of how, in the design of a device, engineers consider how it is be manufactured, operated, maintained, replaced, and disposed of.
- Develop possible solutions to an engineering problem and evaluate them using conceptual, physical, and mathematical models.

Hook, Line, and Thinker	Course Number: 354	Grade Level: 7 and 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective

Students will read and utilize topographical maps, learn basics of knot tying, and explore various anatomies of organisms in the animal kingdom to identify variations related to their environment. This class will focus on the various lakes, fish anatomies, trait variations, and fishing techniques throughout MN.

Standards:

- LS: Ecosystems: Interactions, Energy, and Dynamics
- LS: Heredity, Inheritance and Variation of Traits

SOCIAL STUDIES

MN Studies	Course Numbers: 461, 462, 463	Grade Level: 6
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LENGTH OF COURSE: 6 Terms

CREDITS: 1.5

COURSE DESCRIPTION: Required

Students will learn about the History of Minnesota from the ice age to around World War II focusing on Geography, Economy, and Civic understandings. The use of graphs, maps, personal accounts (written and verbal), and other primary and secondary resources will be used to gain perspective.

Power Standards:

- Engage in historical inquiry.
- Examine the relationship levels of government
- Find locations of cities, landmarks, and topographical features using a map to see how resources affected settlement patterns.
- Analyze the influence of market-based economy at the local and national levels.

US Studies	Course Numbers: 471, 472, 473	Grade Level: 7
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LENGTH OF COURSE: 6 Terms

CREDITS: 1.5

COURSE DESCRIPTION: Required

US History students will use skills of historical and geographical analysis to explore the early history of the United States and understand ideas and events that strengthened our country. Students will continue to learn fundamental concepts in civics, government, economics, culture, and geography as they study United States. Basic geography skills, cooperative learning activities, current events, authentic assessments, and research projects will be used to enhance student learning.

Power Standards:

- Acquire historical skills... including chronological thinking, use of historical resources, historical inquiry, investigation, research, analyze evidence, and draw conclusions.
- Acquire knowledge of United States Citizenship. (rights and responsibilities)
- Describe the relationship and impact the US has in regards to other nations around the world.
- Support Literacy and Mathematic skills.

Global Studies	Course Numbers: 481, 482, 483	Grade Level: 8
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LENGTH OF COURSE: 6 Terms

CREDITS: 1.5

COURSE DESCRIPTION: Required

Global studies is a course in world geography designed with a global scope. Students will gain knowledge about and learn to use globes, maps, almanacs, textbooks, periodicals, and electronic resources. Current events and citizenship are also explored.

Power Standards:

- Determine meanings of words and phrases used in geography.
- Analyze text structure.
- Analyze, use, and create visual information including charts, graphs, maps, graphic organizers, videos, etc.
- Distinguish among fact, opinion, and reasoned judgment.
- Read and comprehend social studies texts proficiently.

Social Studies Electives

History Day	Course Number: 454	Grade Level: 7 and 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective

Do you enjoy studying History? Do you enjoy showing your knowledge in competition? In this course you will get to research a history topic of your choosing. You will then use that research to create a project of your choosing (Exhibit Board, Website, Documentary, Performance, or Paper). You will then have the option to enter your project into the MN History Day Competition where you will compete against your classmates as well as students from other schools across the state and maybe even country.

Power Standards:

- Use primary and secondary sources to analyze the accuracy of retellings of historical events
- Integrate evidence from multiple historical sources and interpretations into a reasoned argument and/or compelling narrative about the past.

Modern US History Through Film	Course Number: 450	Grade Level: 7 and 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective

Modern U.S. History Through Film will explore United States history from 1945 to present and how it has been depicted through movies. In this course students will research the major people and events of U.S. History from 1945 to present. Students will then use the knowledge they have gained to analyze the facts and fictions found in the films that depict those events in U.S. History 1945-Present.

Power Standards

- Use primary and secondary sources to analyze the accuracy of retellings of historical events.
- The be able to identify the major people and events of United States history after World War II that have shaped our recent history.

World History in Action	Course Number: 455	Grade Level: 7 and 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective

Using simulations and readers theater plays, World History in Action students will explore some of the most important events in world history spanning from ancient times through more modern event. Students will learn about the history surrounding these simulations and plays by engaging with both primary and secondary sources. Through these simulations and plays students will look at history through the eyes of then people who lived and experienced these events.

Power Standards:

- Students will be able to use primary and secondary sources to be able to see historical events through multiple perspectives
- Students will be able to identify the major people and events of World History.

AGRICULTURE

Intro to Agriculture	Course Numbers: 700	Grade Level: 7 and 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective

Make ice cream. Care for dogs and cats. Explore gardening, vegetables, flowers, and trees. In this class students will be given the opportunity to sample agricultural education course offerings through units in animals, plants, natural resources, and agriculture mechanics.

Small/Companion Animal Science	Course Numbers: 701	Grade Level: 7 and 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective

In this class, students will discover the world of companion animals such as dogs, cats, rodents, birds, fish, and reptiles. Students will explore different breeds, care and management, disease and health, and more. Veterinary medicine for companion animals will also be discussed. Students may work with live animals to learn more about them and how to care for them.

Plant Science (Spring)	Course Numbers: 702	Grade Level: 7 and 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective

In this course, students will use live plants to learn about natural science and plant cultivation. This class will use the school greenhouse to teach students aspects of plant science such as plant reproduction, genetics, and growth. Students will see first-hand how plant growth and production occurs by choosing and growing their own greenhouse crops. Students will explore both traditional and hydroponic plant production systems and pest management and plant diseases.

Natural Resources	Course Numbers: 703	Grade Level: 7 and 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective

Hunting, fishing, and nature walking every day! Explore and learn about the resources that surround us and understand the impact we have on our environment. This class is designed to give students hands on and applied learning experience with many different natural resources in our community. Students will use a variety of videos and field trips to better understand the concepts throughout this class.

ART

3D Art	Course Numbers: 574	Grade Level: 7 and 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective

Tired of making “flat” art and want to try some “fat” art? Look at some unusual types of three-dimensional (3D) art, then design and produce your own sculptures. We will be using some really different materials and you can let your creativity run big and wild.

Power Standards:

- Create original three-dimensional artworks in a variety of artistic contexts.
- Demonstrate the characteristics of the tools, materials, and techniques of different media for intentional effects.
- Revise artworks based on the feedback of others, self-reflection, and artistic intention.

Beginning Drawing and Painting	Course Numbers: 571A	Grade Level: 7 and 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective

Do you love to draw and paint? In this class, you'll get to create your own art works in the styles of some wild and crazy artists. Depending on the time available, you'll get to design and create a large variety of art in various styles.

Power Standards:

- Create original two-dimensional artworks in a variety of artistic contexts.
- Demonstrate the characteristics of the tools, materials, and techniques of different media for intentional effects.
- Revise artworks based on the feedback of others, self-reflection, and artistic intention.

Advanced Drawing and Painting	Course Numbers: 571B	Grade Level: 7 and 8
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PREREQUISITE: Students need to have completed beginning drawing and painting

LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective

Do you love to draw and paint? In this class, you'll get to create your own art works in the styles of some wild and crazy artists. You'll get to design and create a large variety of art in various styles and mediums. Explore materials and techniques beyond beginning drawing and painting. . **Prerequisite: Students need to have completed beginning drawing and painting**

Power Standards:

- Create original two-dimensional artworks in a variety of artistic contexts.
- Demonstrate the characteristics of the tools, materials, and techniques of different media for intentional effects.
- Revise artworks based on the feedback of others, self-reflection, and artistic intention.

Visual Arts 6	Course Numbers: 567	Grade Level: 6
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Required

The Visual Arts classes will study the cultural influences and effects of artistic foundations and experiment with a variety of mediums and techniques to achieve intentional effects.

Power Standards:

- Analyze the elements and principles of visual art and how they are used in creation, presentation, and response to visual works.
- Compare and contrast the connections among visual artworks, their purposes, and the personal, social, and cultural contexts.
- Create original two- and three-dimensional artworks in a variety of artistic contexts.

World Crafts	Course Numbers: 572	Grade Level: 7 and 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective

Try some unusual crafts from other countries. Look at what was going on in that country during a time period to produce these unique styles of art. Students will then design and produce their own artworks in the selected country's style.

Power Standards:

- Compare and contrast the connections among visual artworks, their purpose, and the personal, social, and cultural contexts.
- Demonstrate the characteristics of the tools, materials, and techniques of different media for intentional effects.
- Revise artworks based on the feedback of others, self-reflection, and artistic intention.

Build Your Own Art Class	Course Numbers: 575	Grade Level: 7 and 8
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PREREQUISITE: Students should have completed two other 7th and 8th grade art classes before taking this class.

LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective

Do you love to design and create your own art? In this class, you'll get to create your own art works in the styles of artists interesting to you. You will research, sketch, and plan for each project you create. **Prerequisite: Students should have completed two other 7th and 8th grade art classes before taking this class.**

Power Standards:

- Create original two- and three- dimensional artworks in a variety of artistic contexts.
- Demonstrate the characteristics of the tools, materials, and techniques of different media for intentional effects.
- Revise artworks based on the feedback of others, self-reflection, and artistic intention.

FACS

Room of My Own	Course Number: 655	Grade Level: 7 and 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective

In this course you will have the opportunity to investigate the process of design from the perspective of an interior designer. Students will examine the impact and role of housing in society. Students will learn about: architectural lettering; the elements and principals of design; the color wheel; color schemes; Maslow's Hierarchy of Needs as it relates to interior design; traffic patterns; living zones; floor plans and elevations; blueprint symbols; budgets; and housing styles. This course will prepare students to take Interior Design and Housing in 9th-12th grade.

Power Standards:

- Demonstrate design concepts with interiors and fabrics.
- Create a floor plan and arrange furniture placement
- Explore current technology

Clothing Design and Construction	Course Number: 683	Grade Level: 7 and 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective

In this course students will examine different styles of clothing and construction. Students will learn how to use a sewing machine to execute basic clothing repairs. Students will complete a clothing care unit for basic fibers and textile products. We will examine the origins and development of clothing across decades. Students will use techniques learned in this course to create a clothing product. This course will prepare students to take Fashion Apparel, Textile, and Design in 9th-12th grade. *Out of pocket expenses may be incurred in this class.*

Power Standards:

- Demonstrate basic skills for making and altering clothing products and apparel.
- Design concepts: Identify design concepts used in fashion and apparel, to include: Demonstrate design concepts with fabrics, and explore current technology use for apparel.
- Explain processes for creating fibers, yarn, woven, and knit fabrics, and non-woven textile products.

Nutrition and Healthy Eats	Course Number: 652	Grade Level: 7 and 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective

This course is designed to teach and motivate students about nutrition. The students will be able to obtain, interpret, and understand basic health information in order to make smart decisions when it comes to nutrition. Students will learn about the digestive system, understand the role of protein, fats, carbohydrates, and sugar in the body, and identify high sources of vitamins and minerals. Students will plan and prepare healthy snacks in this course. This course will prepare students to take Nutrition and Wellness in 9th-12th grade.

Power Standards:

- Analyze the effect of nutrients on health, appearance, and peak performance.
- Analyze sources of food and nutrition information, including food labels, related to health and wellness.

Intro to Foods	Course Number: 651	Grade Level: 7 and 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective

This course will teach students about basic kitchen fundamentals. Students will learn the importance of food and kitchen safety. They will also learn basic food preparation techniques and make several food products during this class. This course will prepare students to take Foods 1 in 9th-12th grade.

Power Standards:

- Identify characteristics of major food-borne pathogens, their role in causing illness, and methods of prevention, and safe handling procedures.
- Prepare various food items using safe handling and proper preparation techniques.

Childhood Development and Care	Course Number: 682	Grade Level: 7 and 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective

This course focuses on the physical, social, emotional, and cognitive growth and development of children. Emphasis is placed on helping students acquire knowledge and skills essential to the care and guidance of children and others. A babysitting unit will equip students with the necessary knowledge to create safe environments that promote optimal development.

Power Standards:

- Describe the stages of brain development that contribute to child development.
- Demonstrate skills for positive guidance and caregiving of children and others.

Teen Choices	Course Number: 681	Grade Level: 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Required

The course to teach and motivate students to make positive decisions that affect their life now and into the future. Students will learn about values, decision-making, peer pressure, peer relationship skills and positive communication. During this class all students will also learn about reproductive health, prenatal development, and parenting. Students will have the option to experience caring for an infant through the BTIO weekend simulation experience.

Power Standards:

- Describe the effects of self-esteem and self-image on relationships in career and family settings.
- Demonstrate communication skills that contribute to positive relationships.
- Analyze principles of human growth and development across the life span.

GLOBAL

Career Exploration	Course Number: 680	Grade Level: 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Required

This class is designed to give students an opportunity to consider future occupational interests. Students will participate in several personal assessments to identify things like strengths, personality, areas of intelligence and personal values. They will use this information to discover occupations that would be of interest to them and that meet their areas of interest and their skills. Students will identify a career pathway and create a high school plan to include activities to be involved in and courses to take throughout their high school career.

Power Standards:

- Students will acquire the skills to investigate the world of work in relation to knowledge of self and to make informed career decisions.
- Students will understand the relationship between personal qualities, education, training and the world of work.
- Students will employ strategies to acquire career information and identify career goals.

World Cultures	Course Number: 196	Grade Level: 7
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Required

The goal of the seventh grade world culture class is to help students develop an understanding of their world through an examination of a variety of world cultural elements. The students will accomplish this through comparing and contrasting their own culture with that of others. The cultural elements reflected upon will be the geography, language, art, music, dance, celebrations, food and clothing of various cultures. The students will build understanding that bridges cultural differences.

Power Standards:

- Students acquire information and perspectives through use of authentic materials in the world languages and from the cultures.

Spanish 1	Course Numbers: 190, 191	Grade Level: 8
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PREREQUISITE: Student needs to earn a trimester grade of B- or better in all three trimesters of English 7

LENGTH OF COURSE: 4 Terms

CREDITS: 1

COURSE DESCRIPTION: Elective

Students in Spanish I will develop the foundational skills necessary to start and continue their study of the language. Students will develop communication skills in relation to reading, writing, listening, and speaking. Learning activities will be varied to build on knowledge and account for differences in learning styles. Spanish I is designed to prepare students for future study in high school. This course and grade will be part of the student's high school transcript.

Prerequisite: Student needs to earn a trimester grade of B- or better in all three trimesters of English 7

Power Standards:

- Students recognize that different languages use different patterns to communicate and can apply this knowledge to their own language.
- Students convey information, concepts, and ideas to listeners and readers for a variety of purposes.

LENGTH OF COURSE: 1 Term**CREDITS: .25****COURSE DESCRIPTION: Elective**

The goal of the 7th or 8th grade elective course Passport to Latin America and Spain is to help students develop an understanding of their world and how it compares to and differs from the cultures of Spanish speaking countries around the world. Students will explore the elements of geography, music, art, celebrations, dance, food, and famous Hispanics.

*Esta clase va a tener algunas referencias y actividades en español como acomodaciones para hispanohablantes.

Power Standards:

- Students acquire information and perspectives through use of authentic materials from other cultures

MUSIC

Band	Course Numbers: 564, 565, 566	Grade Level: 6
	Course Numbers: 530, 531, 532	Grade Level: 7
	Course Numbers: 535, 536, 537	Grade Level: 8

LENGTH OF COURSE: 6 Terms

CREDITS: 1.5

COURSE DESCRIPTION: Elective – Band and/or Choir or General Music is required in grade 6

These courses focus on beginning and continuation of the development of the young musicians' ability to perform on a given instrument. Musical experiences are gained through a variety of styles and composers. Band members will participate in daily rehearsals and perform in concerts. Beginning band members will also have weekly lessons, outside of the daily rehearsal. Instruments and supplies may require rental and/or purchase.

Power Standards:

- Demonstrate the ability to read and notate music.
- Demonstrate proper tone production and articulation while performing on a given instrument.
- Rehearse and perform multiple works of music in a variety of styles.

Choir	Course Numbers: 561, 562, 563	Grade Level: 6
	Course Numbers: 510, 511, 512	Grade Level: 7
	Course Numbers: 515, 516, 517	Grade Level: 8

LENGTH OF COURSE: 6 Terms

CREDITS: 1.5

COURSE DESCRIPTION: Elective – Choir and/or band or General Music is required in grade 6

This course focuses on continuing the development of the young singers' voices and how to use their instrument in a healthy manner. Musical experiences are gained through the use of a variety of styles and composers. Choir members will participate in daily rehearsals and perform in concerts. There are opportunities to perform as a soloist and in small groups, as well as, singing for special events.

Power Standards:

- Demonstrate the ability to read and notate music.
- Demonstrate proper tone production and articulation while singing.
- Rehearse and perform multiple works of music in a variety of styles.

Band and Choir	Course Numbers: 540, 541, 542	Grade Level: 6
	Course Numbers: 545, 546, 547	Grade Level: 7
	Course Numbers: 527, 528, 529	Grade Level: 8

LENGTH OF COURSE: 6 Terms

CREDITS: 1.5

COURSE DESCRIPTION: Elective – Choir and/or band or General Music is required in grade 6

Students in this course alternate every other day between band and choir or with a schedule established between the band and choir teacher.

*Students in grade 6 are required to take band, choir, band and choir, or general music.

General Music	Course Numbers: 568, 569, 570	Grade Level: 6
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LENGTH OF COURSE: 6 Terms

CREDITS: 1.5

COURSE DESCRIPTION: Elective – Choir and/or band or General Music is required in grade 6

This Course focuses on the continuation of students' musical development including music theory, music history, music composition and performance. This project-based class gives students a broad experience in many genres and areas of music and explores creativity and connection between the arts. This course is capped at 35 students.

Power Standards:

- Compare and contrast connections between the arts
- Analyze and Interpret a variety of musical works and performances
- Incorporate the creative process while creating or revising a composition

Musical Theater	Course Number: 509	Grade Level: 7 and 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective This class can be taken in both 7th and 8th grade

Is there an "Inner Performer" in you just dying escape? Love to sing, have fun and act goofy? Do you have a dramatic side? This six week class is for you!! During this intensive six week crash course in basic theater, (including acting, singing, and basic movement) you will have the opportunity to perform a "mini-musical" at the end of the class.

Power Standards:

- Acting by developing basic acting skills to portray characters that interact in improvised and scripted scenes.
- Singing, alone and with others, a varied repertoire of music.
- Evaluating music and music performances.
- Understanding relationships between music, the other arts, and disciplines outside the arts.

*Students in grade 6 are required to take band, choir, band and choir, or general music.

PE/HEALTH

**All students in grades 7 and 8 need to take PE 7/8 each year in grades 7 and 8.*

Fitness Fun for Females	Course Number: 878	Grade Level: 7 and 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective **This class can be taken in both 7th and 8th grade**

This course is designed with female fitness in mind. The course will be one term in length. The focus will be on cardio health, strength, and life time activities. Some of the activities that may be included are: rollerblading, circuit training, cardio workouts, yoga, water aerobics, relaxation techniques and self-defense.

Power Standards:

- Values physical activity for health, enjoyment, challenge, self-expression, and social interaction.

Health	Course Number: 862	Grade Level: 6
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Required

This class will be a one term required class that uses Health Education Today curriculum. The course will cover mental and emotional health, decision making skills, drug awareness, body image and nutrition.

Power Standards:

- Students will demonstrate the ability to use decision-making skills.
- Students will comprehend concepts related to health promotion and disease prevention to enhance health.
- Students will demonstrate the ability to use goal-setting skills to enhance health.

IDLS	Course Number: 873	Grade Level: 7 and 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective **This class can be taken in both 7th and 8th grade**

Individual, Dual, and Lifetime Sports includes the lifetime sports of bowling, table tennis, pickle ball, tennis, badminton, bean bags, cardiovascular fitness, swimming, and can jam.

Power Standards:

- Demonstrates competency in motor skills motor skills and movement patterns needed to perform a variety of physical skills.
- Students will adapt and combine skills to meet the demands of increasingly complex situations of selected movements.

PE 6 A and B	Course Numbers: 860, 861	Grade Level: 6
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LENGTH OF COURSE: 2 Terms

CREDITS: .50

COURSE DESCRIPTION: Required

This will be a required class and will be a combination of life sports, individual sports, and team sports. Swimming will also be included in this course.

Power Standards:

- Achieves and maintains a health-enhancing level of fitness.
- Participates regularly in physical activity.

PE 7/8	Course Number: 870	Grade Level: 7 and 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Required This class needs be taken in both 7th and 8th grade

These will be general physical education classes and will be a combination of life sports, individual sports, and team sports. Swimming will be included in this course. Units that are offered during a specific term will be dependent on weather. For example, soccer would be offered during terms 1, 2, 5, and 6, but not during terms 3 or 4.

Power Standards:

- Achieves and maintains a health-enhancing level of fitness.
- Participates regularly in physical activity.

Speed and Strength	Course Number: 872	Grade Level: 7 and 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective This class can be taken in both 7th and 8th grade

This class is designed to improve strength, endurance, and an individual's overall fitness level. There will be strength training and conditioning exercises provided in a variety of activities. The ROCORI middle school weight room and wrestling room will be utilized for this class. Students will be lifting Monday, Wednesday, Friday and Cardio on Tuesday and Thursday weekly.

Power Standards:

- Achieves and maintains a health-enhancing level of fitness.
- Values physical activity for health, enjoyment, challenge, self-expression, and social interaction.

TECHNOLOGY

Ed Tech	Course Number: 760	Grade Level: 6
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Required

Ed Tech will offer opportunities to develop 21st Century skills to effectively, efficiently and responsibly utilize technology and information resources to communicate, problem-solve and collaborate in an ever-changing, global society. Topics covered include: keyboarding practice, Microsoft Office basics, computer and networking basics, computer animation, online presentation, cyber safety/social networking, & research skills using Electronic Library of Minnesota (ELM) databases.

Power Standards:

- Demonstrate understanding and communicate effectively through listening and speaking.
- Critically analyze information found in electronic and print media, and will use a variety of these sources to learn about a topic and represent ideas.

Keyboarding	Course Number: 754	Grade Level: 7 and 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective This class can be taken in both 7th and 8th grade

This course will emphasize the proper use of a keyboard and point out that keyboarding skills are essential in today's competitive workplace. At the start of the class, drills will be incorporated to develop proper techniques. Other activities such as business and personal letters will be completed.

Power Standards:

- Demonstrate proper keyboarding skills.
- Type using the touch method.
- Type with a reasonable degree of speed and accuracy.
- Set up letters and materials in proper form.

Advanced Keyboarding	Course Number: 761	Grade Level: 7 and 8
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PREREQUISITE: Keyboarding

LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective

This course is designed to advance the student to develop speed and accuracy using the techniques developed in keyboarding using the touch method and through computer lab exercises. Keyboarding software and web-based applications will be used throughout the course. ***Prerequisite: Keyboarding***

Power Standards:

- Demonstrate proper keyboarding skills.
- Type using the touch method.
- Type with a reasonable degree of speed and accuracy.
- Set up letters and materials in proper form

Media Production 1	Course Number: 756	Grade Level: 7 and 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective

Plan, script, and produce media projects, using a variety of video / audio creation, and editing applications. Learn to collaborate and create public service announcements, interviews, news casts, animations, and music videos. Students will also learn to make creative, dynamic presentations using iMovie. * Students will also learn to fly drones that record videos and take photos.

Power Standards:

- Understand, analyze, and use different types of print, digital and multimodal media.
- Create an informative multimedia work or a piece of digital communication.
- Demonstrate a developmentally appropriate understanding of copyright.

Media Production 2	Course Number: 757	Grade Level: 7 and 8
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PREREQUISITE: Media Production 1

LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective

Media Production 2 builds on skills acquired in Media Production 1. Plan, script, and produce media projects, using a variety of video / audio creation, and editing applications. Learn to collaborate and create public service announcements, interviews, news casts, animations, and music videos. Students will also learn to make creative, dynamic presentations using iMovie. * Students will also learn to fly drones that record videos and take photos.

Microsoft Office	Course Number: 755	Grade Level: 7 and 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective

This course will explore three parts of the Microsoft Office Software Suite. Word, PowerPoint, and Excel will be taught in an introductory setting. The importance of these applications in today's technological world will be emphasized.

Students will gain the skills to create letters, reports, outlines, spreadsheets, and computer visuals.

Power Standards:

- Create and edit a Word document that contains tables and charts.
- Create worksheets that contain formulas.
- Create a slideshow presentation utilizing transition and design features.

PLTW Design	Course Number: 750	Grade Level: 7 and 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective

Students enrolled in Project Lead The Way (PLTW) Design will explore five lessons to introduce the engineering process. Units of study include measuring, design tools, sketching, dimensioning, and production. Students will be introduced to the skills necessary to utilize plan and use precision tools and software in the engineering process.

Power Standards:

- Develop an understanding of the attributes of design.
- Compare and integrate quantitative or technical information expressed in text with information expressed visually

PLTW Modeling	Course Number: 751	Grade Level: 7 and 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective

Students enrolled in Modeling will explore six lessons to continue the study of engineering. Units of study include measuring, sketching, design, and production. Students will be introduced to technological skills and tools to aid in the engineering process.

Power Standards:

- Develop an understanding of the role of troubleshooting research and development, invention, innovation, and experimentation in problem-solving.
- Precisely follow multi-step procedures when carrying out experiments, designing solutions, taking measurements, or performing technical tasks.

PLTW Robotics 1	Course Number: 752	Grade Level: 7 and 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective

Design, Build, and Program a Robot!

Learn how creative thinking and problem solving can change your world!

Students trace the history, development, and influence of automation and robotics. They learn about mechanical systems, energy transfer, machine automation and computer control systems. Students use a robust robotics platform to design, build, and program a solution to solve an existing problem.

Power Standards:

- Students will describe the purpose of automation and robotics and its effect on society.
- Students will summarize ways that robots are used in today's world and the impact of their use on society.
- Students will describe positive and negative effects of automation and robotics on humans in terms of safety and economics.
- Students will investigate a career related to automation and robotics and determine the requirements for entering the field.

PLTW Robotics 2	Course Number: 753	Grade Level: 7 and 8
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PREREQUISITE: PLTW Robotics 1

LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective

Take Your Robotics Skills to the Next Level!

Further develop your creativity and problem solving skills to meet the needs of the 21st Century workplace!

Students enrolled in Robotics will explore a wide range of Robotics topics. Students will explore a variety of mechanisms in search for different input and output effects on robotic functions. Students will be introduced to Robot C to program their robots to perform precise maneuvers and actions in a given problem scenario. **Prerequisite: PLTW Robotics 1.**

Power Standards:

- Students will design, build, wire, and program both open and closed loop systems.
- Students will use motors and sensors appropriately to solve robotic problems.
- Students will troubleshoot a malfunctioning system using a methodical approach.
- Experience the responsibility of a mechanical, electrical and computer engineer through completion of robotic problems.

Digital Design 1	Course Number: 762	Grade Level: 7 and 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective

This class is designed to introduce students to concepts used in the commercial graphics and printing industries. Students will be introduced to professional 2-D graphic design software, (Adobe Illustrator) to create vector images. The vector images students create will be used for projects such as logo creation and t-shirt printing. You do not have to take this class before taking digital design 2.

Digital Design 2	Course Number: 763	Grade Level: 7 and 8
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LENGTH OF COURSE: 1 Term

CREDITS: .25

COURSE DESCRIPTION: Elective

This class, like Digital Design 1, introduces students to concepts used in commercial graphics and printing industries. In this course, however, the graphic design software is Adobe Photoshop. This professional grade software allows students to digitally manipulate and enhance photographic imagery. Students will also learn the commercial applications of Photoshop in the graphics industry.