



ROCHESTER
COMMUNITY SCHOOLS

PRIDE IN EXCELLENCE



7TH GRADE VIRTUAL CAMPUS COURSE CATALOG



2022-2023

OUR MISSION

To provide a quality education in a caring atmosphere for students to attain the necessary skills and knowledge to become lifelong learners and contribute to a diverse, interdependent and changing world.



The teaching and learning at Rochester Community Schools is designed to develop innovative, self-directed learners who think critically, communicate effectively and persevere to positively impact the world.

We challenge our learners through dynamic cultural experiences, to be empowered global stewards, and inspire them to take what they learn and have a positive impact on their community, country, and world.

All sixth grade students are scheduled to take the following classes:

- Language Arts
- Mathematics
- Science
- Social Studies
- Physical Education
- Health
- Introduction to World Languages and an elective

English Language Arts

Language Arts 7 - #VC1007

Language Arts 7 is based on the Common Core State Standards (CSS) for seventh grade language arts. Students read narrative and informational text and analyze their structure and their literary and expository elements. Using the writing process, students write a narrative piece and a research report. Students learn and apply comprehension skills, vocabulary skills, spelling, grammar and usage in the context of improving their reading and writing skills. This course is designed to continue the development of language arts, to reinforce and expand on paragraph writing, and to have students read short stories and novels for structure and literary analysis. Students apply speaking and listening skills in large and small groups as they participate in discussions and present information to the class.

Mathematics

Mathematics 7 - #VC4007

Mathematics 7 is based on the Common Core State Standards (CCSS) for seventh grade mathematics. Students solve multi-step equations and inequalities and apply the principles of algebra to problems involving rational numbers, exponents, roots, percent, decimals and fractions. Students represent data 7th Grade Course Catalog 4 using tables, graphs and equations. Students identify patterns in geometry and use geometric concepts and properties to solve problems. Students compute ratios and proportions and determine the probability of events



and how that information can be conveyed using statistics. Students are introduced to equations involving polynomials.

Accelerated Math 7 - #VC4018 Prerequisite: Successful completion of Accelerated Math 6

Students solve multi-step equations and inequalities and apply the principles of algebra to problems involving rational numbers, exponents, roots, percent, decimals and fractions. Students solve linear equations and inequalities and linear equations in two variables. Students compute ratios and proportions and determine the probability of events and how that information can be conveyed using statistics. Students are introduced to equations involving polynomials and nonlinear functions. Students identify angle relationships and perform transformations. Students find the area of parallelograms and trapezoids, the volume and surface areas of prisms, cones, pyramids and cylinders. Students solve problems using the Pythagorean Theorem, distance and midpoint formulas and special right triangles.

(This class will be offered on an as-needed basis.)

Science

Science 7 - #VC6007

The RCS middle school science curriculum utilizes Mi-STAR and Modeling Instruction Pedagogy. This science curriculum is motivated by a vision for the future in which science is taught and learned as an integrated body of knowledge that can be applied to address societal issues. The dimensions of NGSS are sequenced across each year and between years to create a coherent progression that builds on students' prior knowledge and skills. Each bundle in the sequence is connected to a 21st-century theme that will serve as the basis for a Unit Challenge—a problem or issue that the students attempt to solve or address throughout the course of a unit. As students' progress through the curriculum, they repeatedly use the disciplinary core ideas, science and engineering practices, and crosscutting concepts of the middle school grade-band. The units build on one another in a coherent fashion, assuming prior knowledge from previous units. The curriculum includes problems involving genetics/inheritance, mutations, transfer of thermal energy, and the capture and use of energy.

Social Studies

World Geography: Ancient Civilizations - #VC7007

The 7th grade social studies curriculum focuses on ancient world history and geography, from the origins of early man, through the Middle Ages. Students will explore significant changes in every world region through a chronological organization. Mankind's journey will be investigated as it transitions from a nomadic lifestyle, to developed agricultural settlements, to the rise and eventual collapse of classical empires.



Required Elective Courses

One class period of each 7th graders schedule is divided into two semester courses that consist of Physical Education and Health.

Health - #VC6027

Seventh Grade Health is a required semester class that promotes positive health behaviors, attitudes and knowledge. Students are introduced to the underlying theme of wellness and optimal health. Interpersonal skills, relationships among friends and family, external and internal pressures, safety, alcohol and other drug prevention, and growth and development are explored to enhance a life-long commitment to positive health-related decisions, behaviors and goals.

Physical Education - #VC3007

The seventh grade physical education program is a semester class that continues to build on the skills learned in sixth grade and enables students to apply the skills in controlled situations. Students learn the benefits of participating in physical activities both now and in the future. A continuation of the fitness program reinforces positive behaviors while allowing students to manage their own progress and goals. Students participate in activities that improve overall fitness such as, jogging, strength training, and aerobics. Students learn skills, movements and rules to participate in games such as, kickball, tennis, basketball. Students learn and apply positive behaviors that enhance teamwork.

Elective Courses

Seventh graders have one hour of each day for an elective class. A student may choose either one year-long class or two semester classes.

Semester Long Electives

Art - #VC5507

Length: Semester

This course builds upon the elements and principles of design that students have studied in Sixth Grade Art. A variety of materials and techniques are used as students create more advanced works of art. Creativity and problem solving are emphasized. Students create two and three dimensional works of art and critique their own artwork and the artwork of others.

Choir - #VC5107

Length: Semester or Full Year

Students may elect to take this class for either a semester or for the full year. Students develop the vocal skills needed for group choral singing and performance. Proper choral literature for all



voice ranges is studied. Music history and theory are also studied. Students are strongly encouraged to sign up for the full year commitment in order to facilitate the continual learning process of choral singing. Public performance is a course requirement and students are expected to participate in concerts.

STEM (Formerly Design and Technology) - #VC8407

Length: Semester

This STEM (Science, Technology, Engineering, and Math) course exposes students to contemporary technologies in such areas as communication and coding, construction, transportation, robotics and electrical technologies. In this course, students will be introduced to basic drafting concepts and three dimensional computer aided design (CAD). Through demonstrations, discussion and hands-on activities, students will design, layout and construct solutions to given technology related challenges. Students work individually and in cooperative groups to solve problems, develop teamwork and decision making skills as they gain a deeper understanding of how technological systems apply to their everyday lives.

Multimedia - #08808

Length: Semester

Students will identify various media formats and the importance of targeting an audience and delivering an intended message. Proper rules of online etiquette, ethics, and copyright law will be embedded into the curriculum. Students will utilize applications such as Google Apps for Education and the Microsoft Office Suite to work collaboratively to design and create a variety of multimedia presentations based on research topics of choice. Students will broaden their research strategies and skills while acquiring video, audio and photography editing skills to enhance presentations. Students will be exposed to current presentation formats as they become available. Presentation formats may include slides, video, websites, 8th Grade Course Catalog 6 podcasts or blogs with the option to utilize technology resources such as stop motion animation, interactive video and audio, and green screen technology in addition to the creation of printed materials

Full Year Electives

Band - #VC5007

Length: Full Year

Students review what was learned in sixth grade instrumental music. Students perform musical ideas using phrase lengths of at least four measures. Students perform selections that demonstrate their ability to blend tone within their section and the entire band. Students develop an awareness of the musical tones being sharp or flat and ways to correct this through pitch matching. Students complete compositional activities of greater complexity. Students begin to



shape a musical phrase. Students learn and apply articulations in legato, staccato, and marcato. Using a variety of genre, students perform, create, listen, describe, and read music. Students learn and apply vocabulary to critique their own performance and the performances of others. Students are evaluated on performances that take place during class and after school.

Orchestra (String Instruments) - #VC5227

Length: Full Year

Students review what was learned in sixth grade orchestral music. Students perform musical ideas using phrase lengths of at least four measures. Students perform selections that demonstrate their ability to blend tone within their section and the entire band. Students develop an awareness of the musical tones being sharp or flat and ways to correct this through pitch matching. Students complete compositional activities of greater complexity. Students begin to shape a musical phrase. Students learn and apply articulations in legato, staccato, and marcato. Using a variety of genre, students perform, create, listen, describe, and read music. Students learn and apply vocabulary to critique their own performance and the performances of others. Students are evaluated on performances that take place during class and after school.

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World Language Level 1 (French #VC2314, German #VC2414, Spanish, #VC2814, Chinese #VC2614)

Length: Full Year

Students learn to communicate in a variety of situations, such as: listening, conversing, reading, writing, viewing and presenting. Students use language to gain understanding of people and cultures. (Students taking a Level 1 World Language course receive one credit towards the high school World Language graduation requirement.)

