



**MIDDLE SCHOOL
COURSE CATALOG
2017-2018**

Please reference the following link to view North Carolina Common Core Standards and Essential Standards for:

6th grade: <http://www.ncpublicschools.org/docs/curriculum/links/reference-guides/grade6.pdf>

7th grade: <http://www.ncpublicschools.org/docs/curriculum/links/reference-guides/grade7.pdf>

8th grade: <http://www.ncpublicschools.org/docs/curriculum/links/reference-guides/grade8.pdf>

ENGLISH CURRICULUM

10562Y0 English Grade 6

Sixth grade students will use oral language, written language, and media and technology for expressive, informational, argumentative, critical, and literary purposes. Students also explore the structure of language and study grammatical rules in order to speak and write effectively. While emphasis in the sixth grade is placed on personal expression, students should also: 1) interpret and synthesize information; 2) develop an understanding of the foundations of argument; 3) critically analyze print and non-print texts; 4) use effective sentence construction and edit for improvements in sentence formation, usage, mechanics, and spelling; and 5) interpret and evaluate a wide range of literary and informational texts.

10562Y0HSI Cambridge English Grade 6

Prerequisites: Level 5 on prior year EOG, 95% or higher on winter ELA NWEA, ELA Teacher recommendation

In addition to Language Arts 6, students experience complex problem solving analysis and the use of reasoning. Instruction will include a more global perspective with project based learning. Students will be expected to recognize, analyze, and solve problems. The content of this course requires that students be skilled readers and writers, ask penetrating questions, and work independently with challenging materials.

10572Y0 English Grade 7

Seventh grade students will use oral language, written language, and media and technology for expressive, informational, argumentative, critical, and literary purposes. Writing is an integral part of the curriculum. While emphasis in the seventh grade is placed on argument, students also: 1) express individual perspectives in response to personal, social, cultural, and historical issues; 2) expand argumentation to include the use of counterclaims; 3) interpret and synthesize information; 4) critically analyze print and non-print texts; 5) use effective sentence construction and edit for improvements in sentence formation, usage, mechanics, and spelling; and, 6) interpret and evaluate a wide range of literary and informational texts.

10572Y0HNR Cambridge English Grade 7

Prerequisites: Level 5 on prior year EOG, 95% or higher on winter ELA NWEA, ELA Teacher recommendation

In addition to Language Arts 7, students learn and reinforce advanced analytical and reasoning skills. Instruction will include a more global perspective with project based learning. Students encounter ever-increasing complex texts in order to use problem solving, analysis, and reasoning. Students will be expected to recognize, analyze, and solve problems. The content of this course requires that students should be skilled readers and writers, ask penetrating questions, and work independently with challenging materials.

10582Y0 English Grade 8

Eighth grade students will use oral language, written language, and media and technology for expressive, informational, argumentative, critical, and literary purposes. They continue to refine their study of language and grammar in order to speak and write effectively. While emphasis in the eighth grade is placed on using information for a specific task, students also: 1) express individual perspectives through analysis and personal response; 2) expand argumentation to refine the use of counterclaims; 3) critically analyze print and non-print texts; 4) use effective sentence construction and edit for improvements in sentence formation, usage, mechanics, and spelling; and, 5) interpret and evaluate a wide range of literary and informational texts.

10582Y0HEI Cambridge English Grade 8

Prerequisites: Level 5 on prior year EOG, 95% or higher on winter ELA NWEA, ELA Teacher recommendation

In addition to Language Arts 8, students learn and reinforce advanced skills in this course. Instruction will include a more global perspective with project based learning. They will be expected to recognize, analyze, and solve problems. The content of this course requires that students be skilled readers and writers, ask penetrating questions, and work independently with challenging materials. Students employ critical, creative, and problem solving skills by using interdisciplinary texts to generate complex products appropriate to their interests and talents.

MATH CURRICULUM

20062Y0 Math Grade 6

The content in this course follows the Common Core State Standards. In Grade 6, instructional time will focus on four critical areas: (1) connecting ratio and rate to whole number multiplication and division and using concepts of ratio and rate to solve problems; (2) completing understanding of division of fractions and extending the notion of number to the system of rational numbers, which includes negative numbers; (3) writing, interpreting, and using expressions and equations; and (4) developing understanding of statistical thinking. Geometry topics include the discovery of formulas for finding area, perimeter and volume for a variety of geometric figures, and coordinating transformations of these figures.

20062Y0CAM Cambridge Math Grade 6

Prerequisites: Level 4 or 5 on prior year EOG, 90% or higher on winter Math NWEA, Math Teacher recommendation

The students enrolled in this course will be expected to complete Math I by the end of the 8th grade. The content of this course will include the study and extension of concepts addressed in Math 6 and follow the Common Core State Standards. Computing with rational numbers, solving ratios and proportions, and solving relevant and authentic problems involving these concepts will be expected. Students will also be expected to recognize potential problems, analyze errors, solve problems proficiently and use complex reasoning. In addition, students will be expected to solve equations and inequalities involving application of volume and surface area formulas for three-dimensional figures, and the application of area and perimeter formulas for two-dimensional figures. Students will be expected to complete an in-depth study of probability and data analysis.

20072Y0 Math Grade 7

The content in this course follows the Common Core State Standards. In Grade 7, instructional time will focus on four critical areas: (1) developing understanding of and applying proportional relationships; (2) developing understanding of operations of rational numbers and working with expressions and linear equations; (3) solving problems involving scale drawings and informal geometric constructions and working with 2- and 3-dimensional shapes to solve problems involving area, surface area, and volume; (4) drawing inference about populations based on samples.

20072Y0HSE Math Grade 7 Advanced

Prerequisites: Level 4 on prior year EOG, 90%-95% or higher on winter Math NWEA, Math Teacher recommendation

Students will study the foundations of algebra to address 8th grade standards. The content of this course will include the study of concepts addressed in Math 7 and extending into Math 8 focusing on formulating and reasoning about expressions and equations, including modeling an association in bivariate data with a linear equation, and solving linear equations and systems of linear equations. This course will follow the Common Core State Standards. Students will be expected to recognize potential problems, analyze errors, solve problems, proficiently and use complex reasoning. These students will take Math 1 in 8th grade.

21092Y0 Grade 7 - Math I

Prerequisites: Level 5 on prior year EOG, 95% or higher on winter Math NWEA, Math Teacher recommendation

Math I provides students the opportunity to study concepts of algebra, geometry, functions, number and operations, statistics and modeling throughout the course. These concepts include expressions in the real number system, creating and reasoning with equations and inequalities, interpreting and building simple functions, expressing geometric properties and interpreting categorical and quantitative data. This class will also be offered in the spring semester to be taken in conjunction with Foundations of Math I, for those that chose that option. The state 7th grade EOG and Math I NCFE test is required and will count as 20% of the final grade.

High school math credit will be earned upon successful completion of the course. The grade earned will appear on the high school transcript but will not count in the students' high school GPA.

20082Y0 Math Grade 8

This course is designed for students who scored a level 1, 2 or 3 on the 7th grade End of Grade math test and met other diagnostic requirements. The content in this course follows the Common Core State Standards. In Grade 8, instructional time will focus on three critical areas: (1) formulating and reasoning about expressions and equations, including modeling an association in bivariate data with a linear equation, and solving linear equations and systems of linear equations; (2) grasping the concept of a function and using functions to describe quantitative relationships; (3) analyzing two- and three- dimensional space and figures using distance, angle, similarity, and congruence, and understanding and applying the Pythagorean Theorem. The state 8th grade EOG is required and will count as 20% of the final grade.

21092Y0 Grade 8 – Math I

Prerequisites: Completion of Math Grade 7 Advanced, Level 5 on prior year EOG, 95% or higher on winter Math NWEA, Math Teacher recommendation

Math I provides students the opportunity to study concepts of algebra, geometry, functions, number and operations, statistics and modeling throughout the course. These concepts include expressions in the real number system, creating and reasoning with equations and inequalities, interpreting and building simple functions, expressing geometric properties and interpreting categorical and quantitative data. This class will also be offered in the spring semester to be taken in conjunction with Foundations of Math I, for those that chose that option. The state 8th grade EOG and Math I NCFE test is required and will count as 20% of the final grade.

High school math credit will be earned upon successful completion of the course. The grade earned will appear on the high school transcript but will not count in the students' high school GPA.

22092Y0 Grade 8 – Math II

Prerequisites: Completion of Math Grade I in 7th grade, Level 5 on prior year NWEF, 95% or higher on winter Math NWEA, Math Teacher recommendation

Math II continues the study of geometric concepts moving students quickly from an inductive approach to a deductive method of proof. Two- and three- dimensional reasoning skills will be emphasized and students will broaden their use of the coordinate plane. Trigonometric relationships in the right triangle and unit circle will be explored and applied. Algebraic concepts will be readily applied throughout this course. High school math credit will be earned upon successful completion of the course. The state 8th grade EOG and Math II EOC test is required and will count as 20% of the final grade. High school math credit will be earned upon successful completion of the course. The grade earned will appear on the high school transcript but will not count in the students' high school GPA.

SCIENCE CURRICULUM

30062Y0 Science Grade 6

This course is an inquiry-based science class exploring the interrelationships of the life, earth, and physical sciences. Required content includes the study of waves and energy, physical and chemical changes, energy transfer and interactions of matter and energy, earth systems, earth structures and processes, energy flow in ecosystems and populations.

30072Y0 Science Grade 7

This course is an inquiry-based science class exploring the interrelationships of the life, earth, and physical sciences. Required content includes the study of the interactions and limiting factors of natural and technological systems. Specifically, topics will include force and motion, the atmosphere, genetics/ heredity and human systems, characteristics of life, study of protists, and the interactions with our health.

30082Y0 Science Grade 8

This course is an inquiry-based science class which explores the interrelationships of life, earth, and physical sciences. Emphasis is placed on the relationship between humans and the hydrosphere, chemistry and how it relates to our health, evidence of evolution in organisms and landforms, cell theory, biotechnology, microbiology and agents of disease. These students will take a North Carolina EOG test

SOCIAL STUDIES CURRICULUM

40062Y0 Social Studies Grade 6

This course covers the beginning of human society to the emergence of the first global age (1450). Students in sixth grade will continue to expand the knowledge, skills, and understandings acquired in the fourth and fifth grade studies of North Carolina and the United States by connecting those studies to their first formal look at a study of the world. Sixth graders will focus analysis on the emergence, expansion, and decline of civilizations and societies from the beginning of human existence to the Age of Exploration. Students will take a systematic look at the history and culture of various world regions including the development of economic, political and social systems through the lens of change and continuity. During this study, students will learn to recognize and interpret the “lessons of history;” those transferable understandings that are supported throughout time by recurring themes and issues. The standards are organized around five strands: history, geography and environmental literacy, economics and financial literacy, civics and governance and culture. The course includes two types of essential standards – one that identifies the skills that students should master during the course of the year

and another that identify the knowledge and understandings. The skills should be taught within the context of applying knowledge and understandings to a study of the ancient world.

40072Y0 Social Studies Grade 7

Students in seventh grade will continue to expand upon the knowledge, skills and understanding acquired in the sixth grade examination of early civilizations. Seventh graders study the world from the Age of Exploration to contemporary times in order to understand the implications of increased global interactions. This course will guide students through patterns of change and continuity with a focus on conflict and cooperation, economic development, population shifts, political thought and organization cultural values and beliefs and the impact of environment over time. Through an investigation of the various factors that shaped the development of societies and regions in the modern world and global interactions, students will examine both similarities and differences. The standards are organized around five strands: history, geography and environmental literacy, economics and financial literacy, civics and governance and culture. The course includes two types of essential standards – one that identifies the skills that students should master during the course of the year and another that identify the knowledge and understandings. The skills should be taught within the context of applying knowledge and understandings to a study of the modern world.

40082Y0 Social Studies Grade 8

Historical study connects students to the enduring themes and issues of our past and equips them to meet the challenges they will face as citizens in a state, nation and an interdependent world. Pursuant to the passage of House Bill 1032 An Act Modifying the History and Geography Curricula in the Public Schools of North Carolina, the new essential standards for eighth grade will integrate United States history with the study of North Carolina history. This integrated study helps students understand and appreciate the legacy of our democratic republic and to develop skills needed to engage responsibly and intelligently as North Carolinians. This course will serve as a stepping stone for more intensive study in high school. Students in eighth grade will continue to build on the fourth and fifth grade introductions to North Carolina and the United States by embarking on a more rigorous study of the historical foundations and democratic principles that continue to shape our state and nation. Students will begin with a review of the major ideas and events preceding the foundation of North Carolina and the United States. The main focus of the course will be the critical events, personalities, issues, and developments in the state and nation from the Revolutionary Era to contemporary times. Although the major focus is state and national history, efforts should also be made to include a study of local history. The standards are organized around five strands: history, geography and environmental literacy, economics and financial literacy, civics and governance and culture. The course includes two types of essential standards – one that identifies the skills that students should master during the course of the year and another that identify the knowledge and understandings. The skills should be taught within the context of applying knowledge and understandings of the creation and development of North Carolina and the United States.

REQUIRED MIDDLE SCHOOL CLASSES

60262Y0, 60272Y0, 60282Y0 Physical Education/Health

Grade Level: 6-8

The health education and physical education curriculum combines to meet the new Healthful Living Essential Standards. These courses are taught in alternating nine week sections, one in health education and one in physical education. The Health Education standards include behavior and skill development in five strands, Mental/Emotional Health, Alcohol/Tobacco/ Other Drugs, Nutrition/Physical Activity, Interpersonal Relationships/ Communication (including RHASE) and Personal/Consumer Health. The Reproductive Health and Safety Education curriculum is part of our local curricula meeting state standards (House Bill 88). The Physical Education standards include development in four strands, Motor Skills, Movement Concepts, Health Related Fitness and Personal/Social Responsibility.

MIDDLE SCHOOL ELECTIVES

Middle School Elective courses are sequential, follow the North Carolina Standard Course of Study, and build on the skills and knowledge learned in previous courses.

52302Y0 6th Grade Chorus

Prerequisites: none

This course is designed to include 2-3-part singing, as well as beginning vocal technique and score reading.

52312Y0 7th Grade Chorus

This course is designed for students with some experience in basic vocal techniques and a rudimentary level of music reading. 3-4-part singing is introduced with emphasis on performance readiness and experience in pop and more formal vocal music.

52312Y0 8th Grade Chorus

This course is designed for students with some experience in basic vocal techniques and a rudimentary level of music reading. 3-4-part singing is introduced with emphasis on performance readiness and experience in pop and more formal vocal music.

52552Y0 6th Grade Beginner Band

Prerequisites: None

This course offers instruction in brass, woodwind and percussion instruments for students with no previous experience. Essential technique, music reading and ensemble playing skills are introduced and the student participate in concerts to showcase their skills. Students interested in

eventually playing in marching band or pep band should start their journey here. Students provide their own instrument from approved vendor list provided by instructor.

52562Y0 7th Grade Intermediate Band

Prerequisites: 6th grade beginner band or equivalent experience to be approved by instructor

This course builds on the skills learned in beginning band classes and includes brass, woodwind and percussion instruments. Students deepen their learning on the same instrument they studied as a beginner and increase their knowledge of music theory, performance techniques and ensemble playing. Students provide their own instrument from approved vendor list provided by instructor.

52562Y0 8th Grade Intermediate Band

Prerequisites: 7th grade intermediate band or equivalent experience to be approved by instructor

This course builds on the skills learned in beginning band classes and includes brass, woodwind and percussion instruments. Students deepen their learning on the same instrument they studied as a beginner and increase their knowledge of music theory, performance techniques and ensemble playing. Students provide their own instrument from approved vendor list provided by instructor.

52762Y0 6th Grade Intermediate Orchestra

Prerequisites: 4th grade beginner and 5th grade intermediate or equivalent experience to be approved by instructor

This course builds on previous experience playing violin, viola, cello and string bass. Students deepen their skills in playing as an ensemble, preparing concerts and the formal study of music theory. Students provide their own instrument from approved vendor list provided by instructor.

52772Y0 7th Grade Intermediate Orchestra

Prerequisites: 6th grade intermediate orchestra or equivalent experience to be approved by instructor

This course builds on previous experience playing violin, viola, cello and string bass. Students deepen their skills in playing as an ensemble, preparing concerts and the formal study of music theory. Students provide their own instrument from approved vendor list provided by instructor.

52782Y0 8th Grade Orchestra

Prerequisites: 7th grade intermediate orchestra or equivalent experience to be approved by instructor

This course builds on previous experience playing violin, viola, cello and string bass. Students deepen their skills in playing as an ensemble, preparing concerts and the formal study of music theory. Students provide their own instrument from approved vendor list provided by instructor.

11412Y0 Beginning Spanish Grade 6

The 6th grade Spanish course will introduce students to the basics of the language and culture. The learning objectives include familiarizing students with basic vocabulary plus oral and written use of this bank of words. Students will study the culture to better understand the Spanish speaking people and their customs.

11412YA Spanish 1 (Part A) Grade 7

Spanish I part A is the first half of a two-year middle school sequence for high school credit. Successful completion of this two-year sequence will be reflected as Spanish I high school credit on the student's high school transcript, and counts towards meeting the UNC system entrance requirements.

11412Y0 Spanish 1 (Part B) Grade 8

Spanish I part B is the second half of a two-year middle school sequence for high school credit. Successful completion of this two-year sequence will be reflected as Spanish I credit on the student's high school transcript, and counts towards meeting the UNC system entrance requirements.

96102Y0TEC Technology Grade 6

This course is comprised of a series of instructional modules designed to provide hands-on instruction in basic keying skills, digital literacy, computer concept and software applications. The four modules covered are digital literacy, word processing, desktop publishing, and presentation basic and techniques. English Language arts are reinforced.

96102Y0TEC Technology Grade 7

This course is comprised of a series of instructional modules designed to provide hands-on instruction in computer concepts and software applications. The three modules covered are spreadsheet basics & formulas, charts & advanced features, and database basics. Mathematics is reinforced.

96102Y0TEC Technology Grade 8

This course is comprised of a series of instructional modules designed to provide hands-on instruction in computer concepts and software applications. The three modules covered are spreadsheet basics & formulas, charts & advanced features, and database basics. Mathematics is reinforced.

54092Y0 Art Grade 6

This course builds upon students' individual skills in visual arts. The focus is on applying elements and principals of design to interpret the environment, to elaborate on an idea, and to use

as a means of communication. Students use creative and critical thinking skills as they study the purpose and function of art, the history of art, and the impact of art in cultures.

54092Y0 Art Grade 7

Students will develop creative-thinking and problem-solving skills as they explore and produce original art including drawing, painting, printmaking, crafting, and sculpting. A study of artists and their work will help students understand the techniques, skills, and diverse intentions of artists from many cultures and times.

54092Y0 Art Grade 8

Students will refine their ability to communicate visually, manage a wide range of tools and materials, and achieve quality, style, and craftsmanship in drawing, painting, printmaking, contemporary crafts, and 3-D design. Students will have opportunities for evaluating and critiquing their own and other students' art as well as studying artists and analyzing their work.

30092Y0MSS STEM Class

Grade Level: 6-8

This Science, Technology, Engineering, and Math (STEM) course will involve the participation in problem-based and project-based learning activities in mathematics and science inquiries learning tasks, and using technology to gain and display information. Students will practice backwards design to develop their own STEM learning activity.