



KSTM 2020-2021

7th Grade Course Guide



Math 7 (041631 / 041632)

This course covers the content standards for Seventh Grade Math. Students will perform operations with whole numbers, decimals, fractions, and integers, solve proportions and percent problems, convert measurements within systems, use plane geometry, and solve equations and real-life problems. Due to the extended time spent in this daily block course, students will earn 2 credits per semester.

This course meets for a full block every day all year.

Honors PreAlgebra (041651 / 041652)

This course is designed to meet the needs of the student who will benefit from a transition course which bridges the similarities of arithmetic and algebra. This course will contain spiraling reinforcement of basic algebraic concepts and topics in order to prepare students for successful placement in Algebra 1-2. This course will cover the content standards for pre-algebra, including operations on real numbers, conversions among fractions, decimals, and percents, solving linear equations and inequalities, graphing linear equations, working with polynomials, and using measures of central tendency to interpret data. Due to the extended time spent in this daily block course, students earn two credits per semester.

This course meets for a full block every other day. 7th graders will be placed in Honors PreAlgebra based on standardized test scores, Math performance, and teacher recommendation.

English Language Arts Grade 7 (010071 / 010072)

English Language Arts Grade 7 supports student mastery of seventh grade language arts standards and focuses on development and application of skills in grade level reading, writing, speaking, listening, and multiple literacies. Students will read a variety of literary and informational texts and write in a variety of modes using numerous tools and organizational frameworks. Students will also learn appropriate and safe use of digital tools related to research.

This course meets for a full block every other day all year.

Honors English Language Arts Grade 7 (010031 / 010032)

Honors English Language Arts Grade 7 course supports student mastery of seventh grade language arts standards and focuses on development and application of skills in grade level reading, writing, speaking, listening, and multiple literacies. Students will read a variety of literary and informational texts and write in a variety of modes using numerous tools and organizational frameworks. Students will also learn appropriate and safe use of digital tools related to research. Tasks and/or projects will be completed that require rigorous and deep critical thinking skills as they apply to English language arts.

This course meets for a full block every other day all year.

Science 7 (060161 / 060162)

Science 7 engages students in the three dimensions (science practices, disciplinary core ideas, and crosscutting concepts) of learning as identified by the Nebraska College and Career Ready Standards for Science. The topics include structure and properties of matter, chemical reactions, interdependent relationships in ecosystems, matter and energy in organisms and ecosystems, Earth's systems, and history of Earth.

This course meets for a full block every other day all year.

Honors Science 7 (062171 / 062172)

Honors Science 7 engages students in the three dimensions (science practices, disciplinary core ideas, and crosscutting concepts) of learning as identified by the Nebraska College and Career Ready Standards for Science. The topics include structure and properties of matter, chemical reactions, interdependent relationships in ecosystems, matter and energy in organisms and ecosystems, Earth's systems, history of Earth, heredity, and natural selection and adaptations. This course provides a foundation for other science courses. Students enrolled in honor courses have additional experiences that require a more rigorous program of study.

This course meets for a full block every other day all year.

Social Studies 7 (030071 / 030072)

This course examines the world we live in by studying Africa, Asia, and Eastern Europe. Special attention is given to the geography, history, economics, culture, and elements of citizenship within the regions studied. Along with their texts, students use technology, novels, current events, and interdisciplinary activities to expand their understanding of the Eastern Hemisphere. This is the first semester of this course.

This course meets for a full block every other day all year.

Physical Education 7 (070151 / 070152)

This is a survey course involving students in the development of personal fitness and participation in a variety of sports, games, and dance activities. ***This course meets for a half block every other day for the whole year.***

Computer Applications III (130021)

After taking Computer Apps II, this middle-level course is designed to emphasize digital citizenship, basic computer operations, word processing applications, spreadsheet applications, presentation applications, and technology communication tools. Students will master keyboarding skills; compose, create, edit, and format word processing documents; organize and manipulate data in a spreadsheet; and prepare a formal presentation. ***This class meets for a whole block every other day for one semester.***

Students will select one of the following semester-long electives:

Art 7 (110071)

Throughout this course, students will experience a wide variety of artistic materials and examine the artistic communication and expression of identity by several artists, past and present. Aesthetic theories of Expressionism and Imitationalism will also be studied in depth. As they do so, they will be creating their own artwork about personal identity. ***This class meets for a whole block every other day for one semester.***

Anthropology(036061)

This course will focus on projects based on Ancient Civilizations through Medieval Civilizations. This course will integrate the following content standards throughout the school year: maps/globes, culture, history and geography, economics, citizenship, and government. This course will integrate electronic media and communication skills in its content. ***This class meets for a whole block every other day for one semester.***

Astronomy (061111) paired with Music Exploration

Students work within a rigorous framework of galaxy study and cosmology, the study of the cosmos. Much of the study will be done in the school planetarium. Students are encouraged to further their study of astronomy by using this course as a part of their Science Fair research and study. Students will be required to begin work on a digital portfolio for the class.

This course meets for a half block every other day for a Semester.

Seventh graders will take two of the following quarter-long electives:

1-Health Careers Exploration 2 (074319)

This course is an introduction to Health Science careers after taking Health Career Exploration 1. The course will provide experiences along with information and knowledge related to the health care field on an exploratory basis.

2-Zoo Architecture 7 (061499)

Utilizing the engineering and design process, students will collaboratively create projects that relate to the logistics of building a zoo. Students will study computer simulated design, architecture, and engineering concepts and regulations for designing structures and habitats for zoos with a focus on study and conservation.

3-Robotics/Space (Moon)

Space- Students will develop an understanding of the Moon from an astronaut/aerospace engineer perspective. Students will investigate various land/celestial features of the moon. Introduction to creating a space program. Planning for future moon mission and establishing Moon habitats for futures space explorers.

Robotics- King Science Robotics

Students will code, design and build robots to gather scientific data. Introduction to robotic designs and functions. Students will investigate various strategies to mobilize robotics and assign various task.

Seventh graders will choose one of the following Performing Arts options:

Intermediate Band (190531 / 190532)

This course is offered to seventh grade students who began instrumental music instruction in their respective elementary schools or for eighth grade students who began instrumental music in seventh grade beginning band. Instrumental technique and musical understanding focus on the second volume of standard instrumental studies and appropriate band arrangements. Performance is included as an extension of the classroom activities. ***This course meets for a half block every other day for the whole year.***

Intermediate Strings (190721 / 190722)

This course is offered to seventh and eighth grade students who have successfully completed several years study. Instrumental technique and musical understandings focus on standard string method studies and appropriate string orchestra selections. The instrumentation includes violin, viola, cello and string bass. Students with previous instrumental experience may begin changeover instruction on the low string instruments. Performance may be included as an extension of classroom activities. ***This course meets for a half block every other day for the whole year.***

Chorus 7 (190061 / 190062)

Chorus 7 is available to seventh grade students who have special interests and abilities in choral singing. Vocal skills are introduced through appropriate unison, two and three-part singing. Musical independence is encouraged through increasing emphasis on musical notation. Performance opportunities are an extension of the classroom experience. ***This course meets for a half block every other day for a whole year.***

Music Exploration 7(190021) Paired with Astronomy

This course extends the sequential development and expands the scope of musical concepts and skills introduced in elementary grades by singing, listening, creating rhythmic activity, musical notation, and playing instruments. World folk and classic styles are explored, and music from many genres is performed in the classroom. ***This course meets for a half block every other day for a semester.***

Students will be placed in the following enrichment class options based upon test scores, 6th grade course grades, and teacher recommendations.

Reading Skills 7A (011241 / 011242)

This course is designed for readers who have a foundation in decoding skills, but experience difficulty comprehending grade-level material. The curriculum focuses on strengthening fluency, comprehension, and vocabulary skills. Placement is based on standardized test scores and teacher recommendation.

Reading Skills 7B (011271 / 011272)

Students in this course will improve reading proficiency with explicit, direct instruction in fluency, vocabulary, and comprehension. Strategies for phonemic awareness and phonics will be taught as needed. Students will read leveled, high interest literature for both academic and recreational purposes. Placement is based on standardized test scores and teacher recommendation.

7th Grade Example Schedule

	A DAY	B DAY
Block 1/2	Comp Apps III Art 7 or Anthro	Pick 2 Health Care Zoo Space/Robotics
Advisory		
Block 3/4	Math	Math
Block 5/6	ELA	SS
Block 7/8	Science	PE and Pick 1 Band Strings Chorus Music Exploration/Astronomy