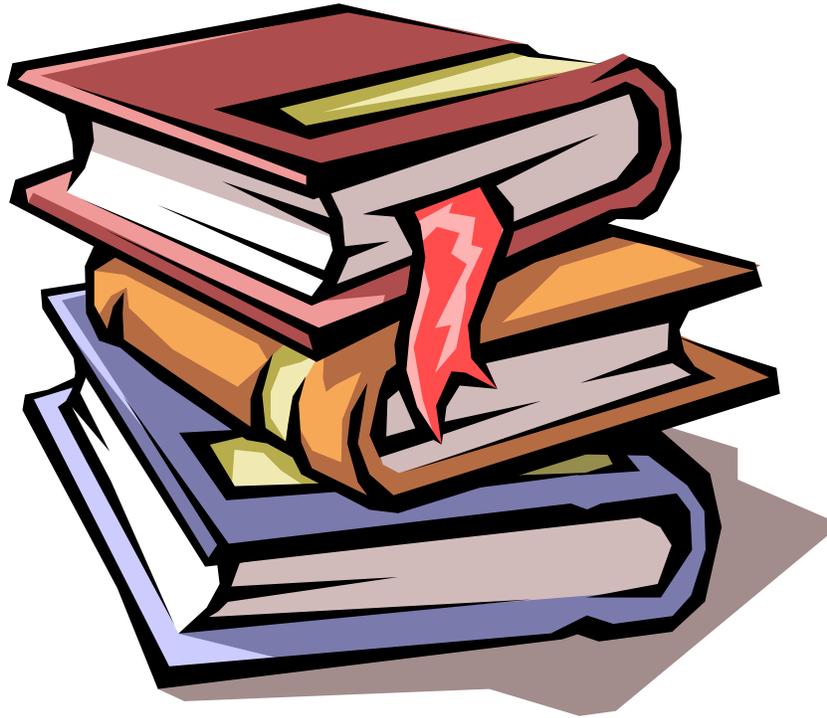


Course of Study



Jefferson Area Junior High School 2017/2018

(Revised December 16, 2016)

GRADE 7

JEFFERSON AREA JUNIOR HIGH SCHOOL COURSE OF STUDY

WORLD HISTORY: This is an introductory course that deals with the study of world history. The course will be aligned to the state standards and includes but is not limited to: Giving the student some insight into the Ancient Civilizations, people in society, world interactions, geography, decision-making and the democratic processes. Through the use of the student text, maps, and audio-visual aids various important topics in Ancient World History will be covered. Through the study of concepts and facts this course should prepare the student in World Studies from 750 B.C. to 1600 A.D. (Ancient Greece to the First Global Age).

ENGLISH 7: The English curriculum for seventh grade students will be aligned to the state standards and includes but is not limited to: Developing the major phases of the writing process; prewrite, rough draft, revise, edit and publish, Understanding the various types of writing i.e. letters, advertisements and other extended types of genre. In this course, students will improve upon writing conventions; spelling, punctuation, grammar, and vocabulary. Throughout the year, students will also apply communication skills through listening and speaking according to audience and purpose. The completion of research projects using technology and reference materials is also required of students in this course.

SCIENCE 7: 7TH grade science is an integrated science course will be aligned to the state standards and includes but is not limited to the following: The earth science portion of the course will include: biogeochemical cycles, weather, and biomes. The life science portion of the course will include: body plans or organisms, interactions of organisms, ecosystems, and environmental changes. The physical science portion of the course will include: matter and energy.

MATH 7: This course is aligned to the state standards and includes but is not limited to teaching and reinforcing essential basic math skills. Proficiency and understanding of mathematical operations are stressed. The students will extend their knowledge of computations to include patterns, measurements, exponents and order of operations. During the class, units on ratios, rates, proportion and percent are included as well units on geometry and data analysis. Throughout the course, students will apply their knowledge in problem-solving situations.

PRE-ALGEBRA 7: This course will be aligned to the state standards and includes but is not limited to examining patterns, relations and functions. In the course, students will use problem-solving approaches with emphasis on multi-step and non-routine problems. Students will also develop and apply number theory concepts in working with whole numbers, integers, rational numbers (fraction and decimal form), ratios, proportions, percent, exponential and scientific notation. The students will classify 2-D and 3-D geometrical figures and solve problems using geometrical models. Students will study perimeter, area and volumes. And students will organize and describe data, draw visual representations of the data and predict probabilities based upon the data. Students will also examine simple counting and probability principles.

HONORS MATH 7: This course is an accelerated math track that will be aligned to the state standards and will allow students to begin Honors Algebra I as an Eighth Grader and take Advanced Placement Calculus as a senior. Students will perform operations on whole numbers, integers, rational numbers (fraction and decimal form), ratios, proportions, percent, exponential and scientific notation. They will learn how to simplify algebraic expressions and solve linear equations. The students will classify 2-D and 3-D geometrical figures and solve problems using geometrical models. Students will study perimeter, area and volumes and be able to find the missing side in a right triangle. They will plot points and graph simple relations on a coordinate system. And students will organize and describe data, draw visual representations of the data and predict probabilities based upon the data. Students will also examine simple counting and probability principles. Students will be challenged to integrate various areas of mathematics and be able to apply their mathematics.

Students will need a folder, notebook for math, and a supply of pencils (mechanical preferred). Students may use their own scientific calculator for part of the school year and should have access to a ruler and a protractor.

CHORUS: This course is open to any interested seventh grade student, who is serious about studying vocal technique and choral music. Students study two-part music of many styles. This is the beginning study of vocal technique, sight singing, and basic musicianship. Three concerts are required during the school year. Students are expected to actively participate in all activities.

BAND: Junior high band is an instrumental music instruction. The junior high band student should strive to improve his/her playing abilities in every way. The junior high band is required to perform 2 concerts during the school year. Students are encouraged to participate in solo and ensemble adjudicated events.

7TH GRADE BLOCK:

Students will each participate in three different courses one during each 12 week period. The courses involved in this block are as follows: Introduction to Computers, Art 7, and Physical Education. All courses will receive a twelve week grade on the yearly report card.

INTRODUCTION TO COMPUTERS: Students will gain a working knowledge about the general design of the computer/Chromebooks and how they function. Internet safety, history, and effective searching techniques are covered in depth as well as history of computer, technology current events, and a focus on the social and legal implications of computers used in our society. Students will learn and use the various components of the Windows operating system throughout the course. Students will become proficient in keyboarding, through the use of basic computer software.

ART 7: This course is an introduction to art in which art making, art history and art appreciation are included. Students will be introduced to several different art movements and artists from history, which they will distinguish among, reflect upon, and discuss. Students will be expected to speak knowledgably, using art vocabulary, to describe, interpret and critique famous artworks as well as their own and their peers' artwork. Students will explore many different media in both two-dimensional and three – dimensional form to create original artwork that focuses on technique, composition, craftsmanship, message and cultural, social and historical influences.

PHYSICAL EDUCATION: The emphasis of this course focuses on total physical fitness: cardio-vascular endurance, flexibility and strength. Activities range from skill development to tournament play to cooperative vs. competitive games.

GRADE 8

JEFFERSON AREA JUNIOR HIGH SCHOOL COURSE OF STUDY

U.S. HISTORY: This is an introductory survey course that deals with the study of U.S. history. This course will be aligned to the state standards and includes, but is not limited to: Giving the student some insight into the American Heritage, people in society, world interactions, decision-making, the democratic processes, and citizen rights and responsibilities. Through the use of the student text, maps, and audio-visual aids various important topics in American History will be covered. Through a study of concepts and facts this course should prepare the student in United States history from the age of European Exploration to 1876 and in citizenship.

ENGLISH 8: This course will be aligned to the state standards and includes but is not limited to: Generating writing ideas through prewriting, drafting, revising, editing, and publishing. Students will also write narratives, literature reviews, business letters, information essays (research), persuasive compositions, and informal writings. Writing conventions including spelling, punctuation, grammar and usage will be reinforced. Opportunities for applying listening strategies, speaking skills and speaking applications will be covered.

SCIENCE 8: 8th grade science is an integrated science course and will be aligned to the state standards. It includes but is not limited to the following: The earth science portion of the course will include: the solar system, the universe, structure of the earth, the rock cycle, and plate tectonics. The physical science portion of the course will include: forces, motion, and transfer of energy.

PHYSICAL SCIENCE: : (36 WEEKS – 1 CARNEGIE UNIT CREDIT FOR HIGH SCHOOL) This science course has a lab component integrated within the course meeting time. The first semester of this course covers an introduction to Chemistry - classification of matter, atoms, periodic table of elements, bonding of compounds, and reactions of matter. The second semester covers an introduction of physics - energy and waves, electricity, and forces and motion. A chapter is also covered that includes a history of the universe and galaxy, and star formation.

MATH 8: Math 8 will lead to four years of high school math: Integrated I, II, III and IV. This course will be aligned to the state standards and includes but is not limited to: Focusing on the basics and fundamentals of arithmetic and elementary algebra. During the year, students will perform basic math arithmetic computations with integers, fractions, decimals and percents. The course will introduce algebra topics by simplifying algebraic expressions, solving simple equations, solving proportions and plotting and graphing points and lines. Data analysis topics will include making and interpreting various types of graphs. Students will be introduced to simple probability concepts by finding the chances that an event will occur and geometry vocabulary and properties will be expanded from 2-D to 3-D figures by finding areas and volumes.

PRE-ALGEBRA 8: Pre Algebra 8 is designed to prepare students to follow either the Algebra I (9), Geometry (10), Honors Algebra II (11) and Trigonometry/Pre Calculus (12) sequence or if they are struggling, follow an Intro to Algebra (9), Algebra I(10), Geometry(11), Algebra II(12) sequence. The Pre-Algebra 8 course will be aligned to the state standards and includes but is not limited to all of the topics covered in Math 8 (see above) but will spend less time on the basics and go further in each topic. Additional topics will include algebraic relations and functions and exponents. They will also work with a protractor and examine simple geometric relationships.

HONORS ALGEBRA I: (36 WEEKS – 1 CARNEGIE UNIT CREDIT FOR HIGH SCHOOL)

Honors Algebra I will be aligned to the state standards and is designed to accelerate gifted mathematics students so they can take Honors Geometry (9), Honors Algebra II (10) , Trigonometry/Pre Calculus (11) and Advanced Placement Calculus (12). Students will be able to identify and understand algebraic symbols, use basic operations to simplify expressions and use basic equation properties to solve equations and inequalities, and systems of linear equations and inequalities. Students will have knowledge of the coordinate plane and be able to graph relations (equations with two variables) using a table of ordered pairs and discuss domain and range of the relation and if the relation is a function. Lines will also be graphed using the slope-intercept method. Students will demonstrate knowledge and understanding of properties of Real Numbers, the laws of exponents, radicals, functions and relations. Students will know the procedures used in factoring and multiplying polynomials, identify and perform basic operations with algebraic fractions, and solve quadratic equations.

CHORUS: Open to any interested eighth grade student, who is serious about improving their singing and musicianship. Students study three-part music of many styles. There is the continuation of vocal technique, sight singing, and basic musicianship. Three night concerts are required during the school year. Students will be graded based on active participation and attendance at all performances.

BAND: Junior high band is an instrumental music course for seventh and eighth grade students who have completed at least one year of instrumental music instruction. The student should strive to improve his/her playing. Students are required to perform 2 concerts during the school year and are encouraged to participate in solo and ensemble adjudicated events.

8TH GRADE BLOCK:

Students will each participate in three different courses one during each 12 week period. The courses involved in this block are as follows: Physical Education, Art 8, & Introduction to Career Choices. All courses will receive a twelve week grade on the yearly report card.

PHYSICAL EDUCATION: The emphasis of this course focuses on total physical fitness: cardio-vascular endurance, flexibility and strength. Activities range from skill development to tournament play to cooperative vs. competitive games.

ART 8: This course is a continuation of Art 7. Students will focus on different art movements and artists from history, which they will distinguish among, reflect upon, and discuss. Students will be expected to speak knowledgeably, using art vocabulary, to describe, interpret, and critique famous artworks as well as their own and their peers’

artwork. Students will explore many different media in both two-dimensional and three – dimensional form to create original artwork that focuses on technique, composition, craftsmanship, message and cultural, social and historical influences

INTRODUCTION TO CAREER CHOICES: This course is designed to prepare 8th grade students through the integration of 21st Century Skills to maximize their secondary education to meet future career opportunities. Units of instruction will focus on practical living/career studies. Students will assess their personal interests in order to assist them in identifying secondary course selections and planning a career path. Through this course, students will progress toward their educational and career goals. This course is designed to address the Ohio state standards for career education for middle school students.