

WCMS Course Description Catalogue

6th Grade

Core Classes

- **Math 6**
 - Representing whole numbers and fractions in several ways
 - Square and cube roots
 - Evaluating numerical expressions involving whole numbers and exponents
 - Absolute value
 - Extending whole number concepts to fractions and decimal numbers
 - Multiplying fractions, mixed numbers, and decimals
 - Using ratios to compare quantities and solve problems
 - Using equations, inequalities, and algebraic expressions to solve real-world problems
 - Understanding how to find the area, surface area, and perimeter of polygons, the area and circumference of circles, and the volume of a solid.
 - Gathering, summarizing, and analyzing data in order to make decisions

- **Bible**
 - Defining and explaining the purpose and methods of evangelism
 - Analyzing the lives of prominent New Testament figures.
 - Examining Paul's missionary journeys
 - Describing the western advancement of the Gospel
 - Examining and analyzing the book of Acts
 - Examining and analyzing the book of Revelation

- **Science**
 - Describing the organization of the universe
 - Examining and identifying features and characteristics of planets, stars, and other celestial bodies
 - Comparing secular and biblical views of creation
 - Describing matter using correct types of measurements
 - Examining the different phases of matter
 - Describing the characteristics of elements, compounds, and mixtures
 - Interpreting chemical formulas
 - Describing the organization of elements on the periodic table
 - Understanding the structure and characteristics of an atom
 - Examining sound and light
 - Examining space travel

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- Social Studies
 - Identifying major geographical locations and features
 - Interpreting and analyzing maps
 - Examining the characteristics of a civilization
 - Examining and analyzing the Sumerian, Egyptian, Greek, Roman, Russian, and Chinese civilizations, their accomplishments, and their effect on history.
 - Analyzing the causes, major events, and implications of World War I and World War II
 - Examining the development and impact of world religions
- English/Language Arts
 - Identifying literary elements in various types of literature
 - Identifying figurative language and elements of writing
 - Understanding the composition process
 - Developing and communicating ideas
 - Evaluating quality writing
 - Reading for comprehension
 - Analyzing character development
 - Identifying parts of speech
 - Applying grammatical concepts
 - Analyzing and composing poetry

Specials

- Art
 - Identifying the elements of art
 - Demonstrating proper use of tools, materials, and techniques
 - Identifying and critiquing periods, styles, and movements of art
 - Applying knowledge of art history to discover personal artistic style
 - Practicing self-reflection and self-evaluation
- Computer
 - Identifying and explaining the differences between MAC and Windows operating environments
 - Identifying differences and best uses of Office 365 and Office 2016
 - Identifying and explaining components of the internet
 - Improving typing skills
 - Demonstrating basic programming commands
 - Producing quality word processing documents and presentations
- Physical Education
 - Demonstrating competency in many movement forms
 - Applying movement forms and strategies to games and competition
 - Developing and tracking individual fitness goals
 - Developing a basic understanding of training to improve physical fitness
 - Participating in a variety of physical activities
 - Examining the role of exercise in weight control and body composition

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- Health
 - Examining the role of effective decision making in promoting wellness
 - Analyzing nutrition
 - Identifying and applying healthy strategies to lose, gain, or maintain a healthy weight
 - Developing methods and strategies to promote character development
 - Identifying communication strategies to help resolve conflict

Music

- Band
 - Putting together, taking apart, and tuning an instrument
 - Using air, form, and embouchure to make a sound
 - Demonstrating basic instrument fingering and not reading
 - Identifying and performing basic rhythmical figures
 - Identifying and performing various key and time signatures
 - Demonstrating scales, arpeggios, enharmonics, slurs
 - Identifying and demonstrating musical terms and styles
 - Demonstrating proper concert etiquette

- Choir
 - Identifying basic music elements and music notation
 - Identifying music notes and rests in a choral score
 - Identifying key signatures and meters
 - Demonstrating harmonies, dynamics, and proper breathing techniques
 - Demonstrating proper concert etiquette
 - Identifying and performing various types of music
 - Examining music theory
 - Applying Curwen hand signs

- Orchestra
 - Identifying and performing various scales
 - Demonstrating correct posture and instrument position
 - Demonstrating the ability to follow a conductor
 - Playing and performing music in various genres and styles
 - Recognizing and reading different score notation, i.e. 1st endings, dc al fine, etc.
 - Playing in various note patterns and meters
 - Developing left hand and bow hand techniques and articulation

7th Grade

Core Classes

- Math 7
 - Expressing and comparing numbers on a number line
 - Demonstrate ability to add, subtract, multiply, and divide integers and rational numbers
 - Simplifying various types of algebraic expressions
 - Solving various types of algebraic equations and inequalities
 - Applying mathematical concepts to real world problems
 - Identifying and constructing various types of angles
 - Identifying and interacting with various types of graphs
 - Demonstrating knowledge and application of probability

- Pre-Algebra
 - Applying understanding of exponential notation
 - Applying understanding of scientific notation
 - Solving various types of algebraic equations and inequalities
 - Defining slope and rate of change
 - Graphing lines in several forms and writing associated equations
 - Applying understanding of linear systems to real world situations
 - Using probability to measure the likelihood of specific outcomes
 - Identifying and describing linear and nonlinear functions
 - Explaining and applying the Pythagorean theorem to solve real world problems
 - Demonstrating understanding of geometric transformations

- Bible
 - Analyzing and articulating the importance of studying the Bible
 - Investigating strategies for understanding the Bible
 - Evaluating the story of creation to understand God's pattern of forming and filling
 - Examining Satan's plan of temptation and the fall of man
 - Analyzing the book of Genesis to gain a deeper understanding of God's promises and his plan for redemption
 - Analyzing the book of Exodus to gain a deeper understanding for how the story of the Israelites relates to their middle school lives
 - Analyze the ten commandments and other passages of scripture that discuss committed vs. broken relationships
 - Examining the books of Joshua, Judges, and Ruth to reinforce the theme of God's faithfulness
 - Memorizing the books of the Bible

- Science
 - Defining science using a biblical framework
 - Demonstrating and applying understanding of the scientific method
 - Participating in scientific investigation and experimentation
 - Collecting and analyzing data
 - Identifying and describing the characteristics and needs of all living things
 - Identifying and describing the parts of the cell, cell theory, and cellular processes
 - Comparing the similarities and differences of plant and animal cells
 - Investigating the chemical structure and implications of DNA
 - Demonstrating understanding of genetic makeup and inheritance
 - Investigating scientific domains and kingdoms
 - Investigating the structure and function of the nine major animal phyla

- Social Studies
 - Examining the importance of understanding the history, culture, geography, and governments of various people groups
 - Investigating the Greek and Roman empires and analyzing their influence on other cultures
 - Examining the development and decline of feudalism in medieval Europe
 - Analyzing the influence of the Roman Catholic Church on medieval life
 - Examining the influence of various world religions
 - Investigating multiple societies and cultures in Africa, Middle East, Asia, Central America, and South America
 - Describing the impact of the events, figures, and ideas of the Renaissance, Reformation, Scientific Revolution, and Enlightenment
 - Investigating the Age of Exploration and its impact on the western world

- English/Language Arts
 - Examining the elements and themes of a novel
 - Describing specific characteristics of different types of novels
 - Developing reading comprehension and analysis skills
 - Developing summarization skills
 - Deepening mastery of the writing process
 - Articulating and communicating ideas
 - Defending a position using evidence
 - Identifying and applying grammatical concepts
 - Identifying and describing symbolism and imagery in a novel

Specials

- Art
 - Applying the elements of art into the design process
 - Demonstrating proper use of tools, materials, and techniques of various media for intentional effects
 - Identifying and critiquing various periods, styles, and movements of art.
 - Using various techniques to create texture
 - Developing intentional studio habits
 - Practicing self-reflection and self-evaluation

- Computer
 - Creating spreadsheets and demonstrating basic features
 - Identifying differences and best uses of Office 365 and Office 2016
 - Analyzing and explaining various types of graphs
 - Demonstrating improved typing skills
 - Demonstrating intermediate programming commands
 - Creating high quality presentations for class projects

- Physical Education
 - Demonstrating mature form for all basic manipulative, locomotor, and non-locomotor skills
 - Applying more advanced movement forms and strategies to games and competition
 - Developing and tracking individual fitness goals
 - Developing a deeper understanding of training to improve physical fitness
 - Participating in a variety of physical activities
 - Explaining the role of exercise in weight control and body composition and applying it to their personal lives

- Health
 - Identifying and evaluating the benefits of remaining abstinent
 - Demonstrating effective refusal skills to avoid peer pressure and to make healthy decisions
 - Identifying and analyzing the positive effects and potential risks of over the counter medicines, prescription drugs, and supplements
 - Examining the potential risks of drugs and alcohol
 - Identifying and describing common mental illnesses
 - Demonstrating and describing basic first aid procedures

- Introduction to World Languages
 - Coming Soon!

Music

- Band
 - Demonstrating good hand position and full tone
 - Performing various concert scales by memory
 - Understanding transposition for own instrument
 - Tuning instruments independently
 - Identifying and performing various key and time signatures and correct dynamics
 - Demonstrating understanding of clef signs, notes, staves, note values, rests, rhythms, dotted notes, and other aspects of music theory
 - Demonstrating expanded range and expanded technique on an instrument
 - Demonstrating pitch correction and good tone
 - Playing and understanding various styles of music
 - Demonstrating proper concert etiquette

- Choir
 - Demonstrating knowledge of basic music elements and music notation
 - Identifying and demonstrating more advanced music elements in a choral score
 - Identifying more advanced key signatures and meters
 - Demonstrating harmonies, dynamics, and proper breathing techniques
 - Demonstrating proper concert etiquette
 - Identifying and performing various types of music
 - Fine tuning skills in vocal technique, vowel pronunciation, and breathing technique
 - Examining music theory
 - Applying Curwen hand signs to more advance melody lines

- Orchestra
 - Identifying and performing various scales and arpeggio
 - Demonstrating correct posture and instrument position
 - Demonstrating the ability to follow a conductor
 - Playing and performing music in various genres and styles.
 - Playing in various note patterns and meters
 - Playing simple syncopation patterns
 - Applying knowledge of D.S., D.C., coda, staccato, and legato
 - Developing left hand and bow hand techniques and articulation

8th Grade

Core Classes

- Pre-Algebra
 - Applying understanding of exponential notation
 - Applying understanding of scientific notation
 - Solving various types of algebraic equations and inequalities
 - Defining slope and rate of change
 - Graphing lines in several forms and writing associated equations
 - Applying understanding of linear systems to real world situations
 - Using probability to measure the likelihood of specific outcomes
 - Identifying and describing linear and nonlinear functions
 - Explaining and applying the Pythagorean theorem to solve real world problems
 - Demonstrating understanding of geometric transformations
- Algebra
 - (You could use the HS description)
 - Translating algebraic expressions
 - Using order of operations to solve numerical expressions
 - Demonstrating the use of multiple properties
 - Demonstrating ability to solve all types of algebraic equations and inequalities
 - Demonstrating understanding of how to graph algebraic inequalities, linear and non-linear functions, absolute value functions, exponential functions, quadratic equations, and square root functions
 - Graphing a line of best fit and interacting with slope and rate of change
 - Evaluating exponents to any power
 - Factoring trinomials of all types and some high-level polynomials
 - Applying the Pythagorean theorem to solve real world problems
 - Solving trigonometric ratios
- Bible
 - Analyzing and articulating the importance of studying the Bible
 - Investigating strategies for understanding the Bible and effectively communicating the Gospel
 - Evaluating the book of Nehemiah and its lessons on leadership
 - Analyzing the book of Esther and its unique purpose in scripture
 - Analyzing the book of Jonah and its lessons on listening to God
 - Investigating and evaluating American culture, and its messages, through the lens of scripture
 - Demonstrating understanding of what the Bible teaches about Truth and Wisdom.
 - Discussing the differences between conforming to culture and transforming it
 - Analyzing the importance of the Christmas story as an essential part of both the New and Old Testaments.
 - Investigate and analyze the life of Christ through an in-depth study of the four gospels

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- Science
 - Defining science within the biblical framework
 - Investigating the process of the scientific method
 - Comparing, contrasting and identifying rocks and minerals through experimentation
 - Investigating geology from a creationists perspective
 - Investigating fossils and their formation, erosion, and plate tectonics
 - Identifying causes of volcanoes and earthquakes and how they relate to plate tectonics.
 - Comparing and contrasting mechanical and chemical weathering.
 - Comparing and contrasting erosion and deposition.
 - Investigating the atmosphere, weather and climate.
 - Participate in and apply the processes of scientific investigation to create models and to design, conduct, evaluate and communicate these investigations.
 - Investigating all types of energy, motion, and gravity
 - Examining and creating simple machines
 - Identifying the relationship between waves and energy.
 - Describing the structure of the atom and the relationship between protons, neutrons, electrons, and energy levels in atoms and their location in the periodic table.
 - Exploration of covalent and ionic bonding

- Social Studies
 - Examining United States history, geography, culture, government, and economics.
 - Comparing the lives and cultures of different Native American tribes.
 - Examining life in English colonies
 - Evaluating the factors that led to the American Revolution
 - Identifying and discussing the principles of government expressed in the Declaration of Independence.
 - Investigating the development of the United States Constitution and the system of government if established.
 - Examining the freedoms protected by the Bill of Rights and their impact
 - Investigating the issue of slavery and the lives of African Americans in the 1800's
 - Identifying and analyzing the causes of the Civil War
 - Investigating the experiences of different people groups during the Civil War
 - Evaluating the immediate and long-term impact of the Civil War
 - Examining the benefits and costs of industrialization in the late 1800s and early 1900s
 - Investigating the experiences of different immigrant groups to the United States in the late 1800s and early 1900s
 - Examining the significant events and figures of the 20th century

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- English/Language Arts
 - Examining the development of the English language
 - Demonstrating knowledge of the writing process and applying advanced writing concepts
 - Revising and editing drafts to improve the final product
 - Determining proper context for vocabulary words
 - Extracting themes, values, and messages when reading a literary work
 - Evaluating characters and events in a literary work
 - Identifying and applying grammatical concepts
 - Demonstrating understanding of proper research
 - Organizing information into logical structures
 - Supporting a position with evidence and supporting details
 - Identifying and interpreting symbols in poetry
 - Demonstrating understanding of persuasive writing

Electives

- Foreign Language
 - Spanish
 - Use the HS description
 - French
 - Use the HS description
- Computer
 - BusTech
 - Collecting, displaying, and analyzing data using spreadsheets
 - Creating databases, queries, forms, and reports
 - Creating quality presentations using multiple presentation tools
 - Demonstrating improved typing skills
 - DigiTech
 - Demonstrate understanding and competency of intermediate programming commands
 - Demonstrating understanding of the digital storytelling process through filming, editing, and producing a quality video.
 - Analyzing film and motion picture creation
 - Demonstrating improved typing skills
- Physical Education
 - Demonstrating mature form for all basic manipulative, locomotor, and non-locomotor skills
 - Applying more advanced movement forms and strategies to games and competition
 - Developing and tracking individual fitness goals
 - Developing a deeper understanding of training to improve physical fitness
 - Participating in a variety of physical activities
 - Explaining the role of exercise in weight control and body composition and applying it to their personal lives

- Art
 - Analyzing and interpreting elements of art and principles of design.
 - Demonstrating safe and creative use of tools, materials, and techniques of various media for intentional effects
 - Applying knowledge of various periods, styles, and movements of art.
 - Exploration and expression of individual, authentic, and creative artistic voice.
 - Developing creative solutions to design problems
 - Practicing self-reflection and self-evaluation
- **Music**
 - Band
 - Demonstrating correct hand position, intonation, and style
 - Performing various concert scales by memory and with fast, even technique
 - Tuning instruments independently when hearing the concert pitch and using embouchure
 - Demonstrating understanding and playing of all key signatures and keys; both flats and sharps
 - Demonstrating ability to follow conductor
 - Performing marcato, legato, and other styles correctly
 - Demonstrating understanding of chromatic scales, dynamics, tempo, and articulation markings
 - Performing a variety of more challenging meters and rhythms including cut time and compound metering
 - Demonstrating the intervals of an octave, third and fifth
 - Demonstrating proper concert etiquette
 - Choir
 - Demonstrating knowledge of more advanced music elements and music notation in a choral score
 - Identifying more advanced key signatures and meters
 - Demonstrating correct posture, tone-quality, diction, blend, musical expression, and dramatic presentation.
 - Demonstrating ability to maintain a specific part while other parts are being sung.
 - Applying interval knowledge to sight singing
 - Identifying and performing various types of music
 - Fine tuning skills in vocal technique, vowel pronunciation, and breathing technique
 - Deepening understanding of music theory
 - Applying Curwen hand signs to more advance melody lines
 - Demonstrating proper concert etiquette

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- Orchestra
 - Identifying and performing various more challenging scales and arpeggio
 - Demonstrating correct posture and instrument position
 - Demonstrating the ability to follow a conductor
 - Demonstrating hand and instrument adjustment for intonation
 - Playing and performing music in various genres and styles.
 - Playing in various note patterns and meters
 - Playing more challenging syncopation patterns
 - Applying knowledge of D.S., D.C., coda, staccato, and legato
 - Developing left hand and bow hand techniques and articulation