



Northville Christian School

Eighth Grade Learning Chart

This Learning Chart is designed to explain the goals of our instructional program. It shows examples of the goals for students in each subject at your child's grade level. The chart does not list all of the skills children are taught or all of the concepts to which they are exposed. Instead, each section indicates some of the skills the majority of students possess after they have completed that grade level. The rate of progress will depend upon individual differences and teaching styles.

The skills and concepts are listed in separate subject areas on this chart. They are taught in conjunction with one another so that the student can recognize the relationships among the various subjects. Many skills are practiced and improved upon in more than one grade level.

Bible

- Memorize designated scriptures
- Apply biblical principles in the following areas:
 - Daily Life
 - Relationships
 - Friendships
 - Character Development
- Apply biblical principles while mentoring younger students
- Study the Life of Christ
- Understand the biblical worldview and its application to daily life and decisions
- Use evidence from history, science, the Bible and personal experience to write a paper supporting Christian faith
- Focus on recognizing and understanding Christian worldview

Language Arts

- Reading Connections
 - Evaluate story elements of novel/short story
 - Identify words using context clues & inferences
 - Expand comprehension and listening skills
 - Explore literature and develop an appreciation for the classics
 - Analyze poetry
 - Study and understand biography/autobiography
- Grammar and Writing Connections
 - Review sentence structure, mechanics, and parts of speech
 - Reinforce the grammar/writing connection in format and style: narrative, compare/contrast, analogy, informative, essay
 - Research and report
 - Integrate across curriculum- historical fiction
 - Expand research skills:
 - Use multimedia/Internet
 - Compile information into MLA format
 - Reinforce the grammar/writing connection in speech
 - Speech/oral presentation
 - Strengthen listening comprehension
- Use 6+1 Traits of Writing to guide writing formation

Mathematics

- Pre-Algebra
 - Order of operations – integers, fractions, and decimals
 - Evaluation of algebraic expressions
 - Evaluation of exponential expressions and radicals
 - Graphing and solving equations
 - Graphing and solving inequalities
 - Algebraic sentences
 - Surface area and volume of three dimensional figures
 - Write integers to evaluate:
 - Absolute Value
 - Scientific Notation
 - Probabilities
 - Exponents
- Algebra I
 - Review Pre-Algebra concepts
 - Solving systems of linear equations – using substitution, elimination, and graphing
 - Polynomials – multiplication and division
 - Slope – intercept method of graphing
 - Uniform motion
 - Factoring and solving quadratic equations
 - Introduction to logarithms

Science

- Expand learning and understanding of physical science and chemical science
 - Scientific inquiry
 - Science Technology
 - Physical & Chemical properties of matter
 - Periodic Table & Elements
 - Atoms & Bonding
 - Laws of Motion
 - Force & Pressure
 - Energy & Fuels
 - Work & Simple Machines
 - Electricity & Magnetism
 - Creation vs Evolution
 - Hands on activities/labs

United States History

- Study U.S. history from a Christian perspective, beginning with the American Revolution
- Study the major events and movements in our country through the end of the 19th century, including:
 - U.S. Constitution
 - Development of the U.S. economy
 - American political party system
 - Industrial Revolution
 - Civil War
 - Reconstruction
- Evaluate historical information by using primary sources
- Encouraged to recognize the perspective of different secondary sources

Community Service and Social Skills

- The ability to interact effectively with people and life's circumstances is very important. Students are involved in instructional strategies and life experiences to enhance the development of their emotional intelligence and character
- Lessons on leadership, character development, and emotional intelligence
 - Peer group discussions for the development of interpersonal and intrapersonal skills like empathy, negotiation, communication, and assertiveness
 - Peer mediation lessons to empower students to help one another in conflict and for the development of leadership traits
 - Community service experiences to allow students to minister to people in and out of our school for the furtherance of biblical principles

Art

- Increase perception
 - increase perceptual awareness
 - see shapes and forms as they relate to space and light
- Increase conceptualization
 - develop a vocabulary for dealing with a variety of art media, design, composition, variations of light, color, texture, form, shape, and space
- Increase creative experience
 - increase knowledge and application of tools and materials as they relate to artistic production and experience
 - develop interest, openness, spontaneity with the object or experience
- Develop skills in subsequent activities
 - drawing, painting, sculpture (maché and clay), art history, design

Band

- Develop an appreciation for various types of music
- Develop performance skills through participation in concerts
- Listen, read, and write music (both by playing and singing)
- Learn about musical history and how it relates to what is played in class
- Develop an understanding of music theory
- Be able to play your instrument both technically and with musicality

Computer

- Identify and discuss current trends and issues in technology
- Learn to format and print word processing documents
- Learn to create a Power Point presentation
- Increase keyboarding skills
- Solve several tasks while using a computer by identifying the correct database, spread sheet, and/or word processing program necessary to complete the assignment
- Utilize the computers for research work
- Digital Citizenship including: Cyberbullying, Privacy, Digital Footprints, & Internet safety
- Use spreadsheets to record, analyze and report data

Physical Education

- Learn rules for appropriate games
- Develop self control
- Learn sports etiquette
- Enjoy competition & social interaction in activities
- Develop team sport concept & cooperation
- Display Christian sportsmanship when winning or losing
- Develop physical fitness (jump rope, exercise, stamina)
- Respect others' talents
- Practice to improve skills

Spanish

- Review conversational skills, numbers into the millions, masculine and feminine properties of nouns and adjectives, previous vocabulary
- Review the verb ser and subject pronouns, conjugate
- Present tense –ar, -er, -ir verbs,
- Descriptive adjectives
- Learn interrogative words, family, read a simple book