GRADE 5

**LANGUAGE ARTS/ENGLISH**
Evidence-based, creative writing, and quick writes centered on literature coupled with developing writer’s notebook, original poetry, and memoirs in a workshop format in an effort to reinforce grammar and vocabulary.

**MATH**
Singapore Math approach and problem solving through number theory, multiplication, division, decimals, fractions, ratio, percent, algebra, data and probability, basic geometry, and real world connections through math.

**SCIENCE**
**PHYSICAL AND EARTH SCIENCES:** EV3 Robotics, Astronomy, Force & Motion, STEM Challenges

**SOCIAL SCIENCES/HISTORY**
World History & Cultures. Examination of the growth and development of human communities and cultures, with a focus on Egypt, Greece, the Indus River & China.

**WORLD LANGUAGES**
Using familiar topics, students learn to express themselves and understand the Spanish language. Course includes emphasis on the study of Hispanic Culture.

**FINE AND PERFORMING ARTS**
Quarter-year rotation of Instrumental Music, Vocal Music, Drama and Visual Art.

**PHYSICAL EDUCATION**
Fitness and sports based curriculum. See other side for details.

**TECHNOLOGY**
**ONE-TO-ONE TABLET PC PROGRAM IN GRADES 5-8**
Interactive Wireless Projectors; Digital Language Lab; Video and Still Cameras; eReaders; Audio Books; 3-D Printing and Modeling, Laser Engraver and Cutter; CNC Machining Creativity and Innovation; Communication and Collaboration; Research and Information Fluency; Critical Thinking, Problem Solving, and Decision Making; Digital Citizenship; Operations and Concepts

**CURRICULAR APPLICATIONS:**
Digital Imaging, Video, and Audio; Computer Programming; Digital Storytelling; Digital Cartography; Web Design; Computer Modeling and Simulations; Web and Database Searching; Website Evaluation; 3D Design; Productivity Tools

**SPECIAL PROGRAMS AND EXPERIENCES**
Theme for the year - Stepping Up
Mini-Camp on campus
Sheldon Concert Hall
Challenger Learning Center
Adventure Night
Hidden Valley Ski Trip
City Museum
Digital Fabrication
Maker Space

**FOR GRADES 5-8**
Spring Fling, Talent Show, Fall Spirit Days, Fall and Spring Concerts, Turkey Train, NCADA, Sunrise Sessions, Purposeful Parenting, Homecoming, Helping Hands

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GRADE 6

**LANGUAGE ARTS/ENGLISH**
Five paragraph essay, literary analysis, quick writes, literature circles, vocabulary and grammar mechanics all surrounding one major novel per term coupled with oral presentations based on book talks.

**MATH**
Rational numbers, patterns, fractions, decimals, percents, alternative methods of computation, data and statistics, algebraic reasoning and using algebra to solve real problems.

**SCIENCE**
**ENVIRONMENTAL SCIENCE & PHYSICS:** Waves, Energy & Matter, Ecosystems, Weather/Climate, STEM Car Physics

**SOCIAL SCIENCES/HISTORY**
United States History & Cultures. Exploration of the development and evolution of the United States, with an eye to the impact of the past on the 21st century America.

**WORLD LANGUAGES**
Students expand their ability to communicate and understand the Spanish language while gaining a deeper understanding of their own culture through the study of Hispanic culture.

**FINE AND PERFORMING ARTS**
Band or Vocal Music for full year
Drama and Visual Art for one semester

**PHYSICAL EDUCATION**

**TECHNOLOGY**
**CURRICULAR APPLICATIONS:**

**SPECIAL PROGRAMS AND EXPERIENCES**
Theme for the year - Taking Charge
Cultural Heritage Project
6th Grade Arts Night
Passport Day
April Action Project
Taking Charge Advisory Project
Laumeier Sculpture Project/Field Trip
Passion Projects
Hawn State Park Camp Celebration

**FOR GRADES 5-8**

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GRADE 7

**LANGUAGE ARTS/ENGLISH**
Exploration through reading and grammatically correct writing, the intentional use of all literary devices and author’s style in short stories, poetry and literary works; expansion of critical thinking/inferential questioning through discussion and oral presentation techniques.

**MATH**
Operations with signed integers, algebraic expressions and equations, ratio and proportion, data and statistics, geometric constructions, rates of change.

**SCIENCE**
**BIOLOGY:** Cells & Body Systems, Infectious Disease, Genetics, Natural Selection, Coding/Simulation

**SOCIAL SCIENCES/HISTORY**
Global Perspectives. Thematic investigation of both history and the current day with a focus on understanding multiple points of view.

**WORLD LANGUAGES**
Students start a two year sequence in the study of French, Latin, Mandarin or Spanish. Emphasis on building confidence with the language, basic grammar and vocabulary, and study of culture.

**FINE AND PERFORMING ARTS**
String Ensemble, Band or Vocal Music for full year
Drama and Visual Art for one semester

**PHYSICAL EDUCATION**

**TECHNOLOGY**
**CURRICULAR APPLICATIONS:**

**SPECIAL PROGRAMS AND EXPERIENCES**
Theme for the year - Embracing Change
Fall Team and Leadership Experience
Overnight Camping
Spring Dance

**FOR GRADES 5-8**
Spring Fling, Talent Show, Fall Spirit Days, Fall and Spring Concerts, Turkey Train, NCADA, Sunrise Sessions, Purposeful Parenting, Homecoming, Helping Hands

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GRADE 8

**LANGUAGE ARTS/ENGLISH**
Well-articulated evidence based and creative writing using classic novels, plays, and published essayists as resources with a formal presentation as a capstone experience.

**MATH**
Properties of exponents, linear equations, graphing lines, systems of equations, congruence and similarity, irrational numbers, the Pythagorean Theorem, data and statistics.

**SCIENCE**
**INTRODUCTION TO CHEMISTRY AND PHYSICS:** Matter, Reactions, Energy, Electricity and Magnetism, STEM Challenges

**SOCIAL SCIENCES/HISTORY**
World History 1300 - 1900. Study of the major civilizations and developments from 1300 - 1900, with a focus on the emergence of an interconnected world.

**WORLD LANGUAGES**
Students continue the study of language chosen in 7th grade; French, Latin, Mandarin or Spanish

**FINE AND PERFORMING ARTS**

**PHYSICAL EDUCATION**

**TECHNOLOGY**
**CURRICULAR APPLICATIONS:**

**SPECIAL PROGRAMS AND EXPERIENCES**
Theme for the year - Becoming a Young Adult
Community Service/Field Trip
End of Year Field Trip
Personal Essay Presentation
RISE Impact Summit
Six Flags
Spring Dance
Eighth Grade Celebration

**FOR GRADES 5-8**
Spring Fling, Talent Show, Fall Spirit Days, Fall and Spring Concerts, Turkey Train, NCADA, Sunrise Sessions, Purposeful Parenting, Homecoming, Helping Hands

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**STUDENT ACTIVITIES**
3:15-5:00 p.m.

**AFTER SCHOOL ATHLETICS**
7th and 8th Grades: Baseball, Basketball, Cheerleading, Cross Country, Field Hockey, Football, Ice Hockey, Lacrosse, Soccer, Squash, Tennis, Track and Field, Volleyball, Water Polo, Wrestling

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**FOR GRADES 5-8**
Open Art Studio
Book Clubs
Cooking Club
Girls on the Run
Latin Club
Library Pages
MS Writing Club
String Ensemble

**AFTER SCHOOL ATHLETICS**
3:15-5:00 p.m.

**FOR GRADES 5-8**
Athletic Dev.
Chess Club
Cricket Club
Jazz Band
Lego Robotics Team
Math Club
MSICDS Ramsambassadors
MS Meeting Planners
MS Writing Club
Playback Theater
Science Fair
Student Council
# Physical Education

**GRADES 5-8**

## Health and Fitness Units
- Athletic Development
- Circuit Training
- Energy System Training
- Nutrition
- Strength Training
- Swimming
- Yoga

## Traditional Sports
- Baseball
- Basketball
- Field Hockey
- Football (Tackle and Flag)
- Lacrosse
- Soccer
- Squash
- Tennis
- Track & Field
- Volleyball
- Wrestling
- Water Polo

## Non-Traditional Sports and Physical Activities
- American Handball
- Badminton
- Dance
- Futsal
- Handball
- Pickleball
- Powerball
- Speedminton
- Tchoukball
- Ultimate Frisbee