### 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

**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
- 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**
Mini-Camp on campus Sheldon Concert Hall Challenger Learning Center Adventure Night Hidden Valley Ski Trip

**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

### 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**

**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

**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
- 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**
Community Service Program Hidden Valley Ski Trip Cultural Heritage Project 6th Grade Arts Night Passport Day Sheldon Concert Hall Field Trip April Action Project Taking Charge Advisory Project Laumeier Sculpture Project/Field Trip Passion Projects Hawn State Park Camp 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

### 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**
Band or Vocal Music for full year Drama and Visual Art for one semester

**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
- 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**
Fall Team and Leadership Experience Overnight Camping Rise Impact Summit Community Service 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

### 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**
Students choose two for full year: Band, Vocal Music, Drama, Visual Art
# 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
- Futsol
- Handball
- Pickleball
- Powerball
- Speedminton
- Tchoukball
- Ultimate Frisbee