

- Measurement**
- Understanding measurable attributes of objects and figures, and the units, systems and processes of measurement.
 - Apply appropriate techniques, tools, and formulas to determine measurements.

- Algebraic Concepts**
- Understand patterns, relations, and functions using multiple representations
 - Use numbers, symbols, words, tables and/or graphs appropriately
 - Use models to represent quantitative relationships

MATH (CPM)
 H Geometry
 H Algebra 1
 Algebra 1
 8th Gr Math

- Geometry**
- Analyze two and three-dimensional geometric shapes and understand geometric relationships
 - Transformations and symmetry
 - Locate points or describe relationships using a coordinate plane

- Data Analysis and Probability**
- Organize, display, interpret or analyze data
 - Answer questions using data
 - Use appropriate statistical methods to analyze data
 - Apply basic concepts of probability or outcomes
 - Develop inferences and predictions or draw conclusions based on data or data displays

- Numbers and Operations**
- Demonstrate and understanding of numbers, ways of representing numbers, relationships among numbers, and number systems
 - Understand the meanings, use operations, and understand how they relate to each other.
 - Compute accurately and fluently and make reasonable estimates

- Matter**
- Properties of matter
 - Chemical and Physical Changes
 - Law of Conservation of Mass

- Energy**
- Types of energy and energy conversions
 - Means of energy transfer
 - Classify energy sources
 - Law of Conservation of Energy
 - Identify alternative energy resources

- Fundamentals of Chemistry**
- Use models to describe Atomic Structure
 - Identify periodic trends
 - Utilize symbols and chemical formulas

- PHYSICAL SCIENCE**
- Scientific Process**
- Design and conduct scientific investigations
 - Utilize tools of a scientist
 - Practice laboratory safety

- Principles of Motion and Force**
- Speed and Acceleration
 - Gravity and Friction
 - Newton's Law of Motion
 - Law of Conservation and Momentum
 - Work using simple machines



**EXETER JUNIOR HIGH SCHOOL
 GRADE 8 AT-A-GLANCE
 (PAGE 1 OF 2)**

- Interpret/Analyze Fiction and Non-Fiction**
- Identify, compare, describe, analyze, and evaluate components of fiction and non-fiction.
 - Identify, interpret, and analyze figurative language
 - Identify and interpret point of view
 - Distinguish fact from opinion and essential from non-essential content
 - Identify author's claim and bias
 - Read, analyze, compare, interpret, and comprehend a variety of texts: Non-Fiction, Fiction, Poetry

- Comprehension and Reading Skills**
- Vocabulary development
 - Word recognition skills
 - Make inferences, conclusions, and generalizations
 - Identify main idea and details
 - Identify genre and summarize a text

READING

- Required Reading**
- Several texts
 - Response to Reading
 - Comprehension assessments
 - Literature Circles
 - Projects

ENGLISH LANG ARTS (HMH Collections)

- Writing Projects/Skills**
- Argumentative
 - Informative
 - Narrative essays
 - Text-Dependent Analysis
 - Paragraph Development
 - Word Choice/Vocabulary
 - Descriptive words/details
 - Audience/Voice
 - Identify/Use Figurative Language
 - Editing and revising skills

- Early American Government including key figures, documents, and policies**

- Early Settlements**
- English colonial settlements and society.

- Westward expansion
- War of 1812

SOCIAL STUDIES (EAC)

- Key people who have impacted Early American cultures**

- Civil War
- Comparison/Contrast of North, South, and West
- Reconstruction

- Causes and effects of the French and Indian & American Revolutionary Wars**

- Measure/Interpret Vital Signs
- Body Systems/Brain A & P
- Analyze Genetic Testing (DNA)
- Examine Medical Histories
- Research Pathogens
- Diagnose and Propose Treatment
- Virtual Autopsy

Medical Detectives

8TH GRADE ROTATION

Automation and Robotics

- Mechanical systems
- Energy transfer
- Machine automation
- Computer control systems
- Use robotics platform to design, build, and program real-world objects

Family and Consumer Science

- Working with others
- Individual Responsibility
- Family and Community Life
- Self-Efficacy
- Food Unit Preparation
- Nutrition
- Consumerism relating to food
- Personal Health/Wellness

- Team Building
- Indoor Games
- Badminton/Pickleball
- Floor Hockey
- Basketball
- Volleyball
- Field Games
- Baseball/Softball
- Flag Football
- Frisbee
- Soccer
- Lacrosse

PHYSICAL EDUCATION

- Agility/Plyometrics
- Dance Dance Revolution
- Physical Fitness Testing
- Yoga/Pilates
- Step Aerobics
- Tae-Bi/Kickboxing
- Pedometers/Heart Rate Monitors

- Principals of Comp Sci
- Interactive design process
- Create basic apps using App Inventor

INTRO TO COMPUTER SCIENCE

- 2 and 3 dimensional Art.
- Elements of graphic design
- Art History and Criticism
- Problem solving projects

ART 8

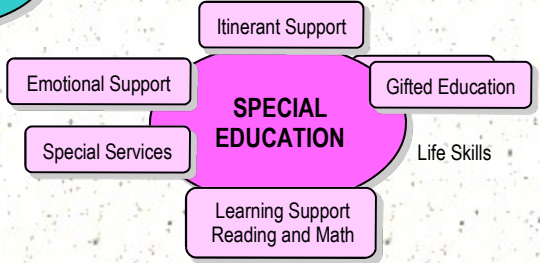
- Group and individual design activities
- Brainstorm, visualize, model, construct, test, and refine designs
- Seven areas of technology
- Electrical Energy

EXPLORING TECHNOLOGY

MUSIC EXPLORATIONS

- Improvisation
- Script Reading
- Major Production
- Modern Media
- Film Editing
- Background Music
- Creative Expression

**EXETER JUNIOR HIGH SCHOOL
GRADE 8 AT-A-GLANCE
(PAGE 2 OF 2)**



MUSIC TECHNOLOGY

- Sampling, loops, and editing using Garageband app
- Basics of theater
- Enhanced visual arts using music and sound recording technology

CHORUS

STRINGS

PERFORMING MUSIC

BAND

WORLD LANGUAGES

INTRO to FRENCH (half-year)

INTRO to GERMAN (half-year)

INTRO to SPANISH (half-year)

- Grammar/Punctuation
- Greetings/Courtesies
- Objects, Commands
- Alphabet, Numbers
- Geography
- Culture
- School Subjects
- Time
- Food
- Weather/Seasons