YEARLONG COURSES

(Meet every day)

LANGUAGE ARTS

Literature

1. Comprehend the literal and inferred meaning of texts.
2. Determine the meaning of words and phrases; analyze the impact of word choice.
3. Analyze how text structures contribute to meaning and style.
4. Analyze how differences in points of view create effects such as suspense and humor.
5. Read grade appropriate texts with comprehension, accuracy, and fluency.
6. Self-select texts and read widely to understand multiple viewpoints.

Informational Text

1. Comprehend the explicit and inferred meaning of texts.
2. Determine the meaning of words and phrases; analyze the impact of word choice on meaning and tone.
3. Analyze in detail the structure of a paragraph in a text.
4. Determine an author's point of view and analyze how the author responds to conflicting viewpoints.
5. Read grade appropriate texts with comprehension, accuracy, and fluency.
6. Self-select texts for enjoyment and academic tasks.

Writing

1. Write arguments, informative/explanatory texts, and narratives.
2. Use a writing process to develop and strengthen writing.
3. Use technology, including the Internet, to publish writing and present the relationships between information and ideas.
4. Conduct short research projects to answer a question.
5. Gather relevant information from multiple sources and assess the credibility of the sources.
6. Draw evidence from texts to support analysis, reflection, and research.
7. Write routinely over shorter and extended time frames.

Speaking, Viewing, Listening and Media Literacy

1. Engage effectively in a range of collaborative discussions.
2. Analyze the purpose of information presented in diverse media and formats.
3. Evaluate the reasoning and relevance of speakers' arguments and claims and identify irrelevant evidence.
4. Present claims and findings with relevant evidence and valid reasoning.
5. Include multimedia components and visual displays in presentations.
6. Adapt speech to a variety of contexts, audiences, and tasks.
7. Understand, analyze, and use different types of print and digital media.
8. Create a persuasive multimedia work.

Language

1. Demonstrate command of English grammar when writing or speaking.
2. Demonstrate command of writing conventions: capitalization, punctuation, and spelling.
3. Use knowledge of language and its conventions when writing, speaking, reading, or listening.
4. Determine or clarify the meaning of unknown words and phrases.
5. Demonstrate understanding of figurative language and word relationships.
6. Acquire and use grade-appropriate academic and domain-specific vocabulary.

MATHEMATICS

1. Read, write, compare, classify, and represent real numbers, and use them to solve problems in various contexts.
2. Understand the concept of function in real-world and mathematical situations, and distinguish between linear and nonlinear functions.
3. Recognize linear functions in real-world and mathematical situations; represent linear functions and other functions with tables, verbal descriptions, symbols and graphs; solve problems involving these functions and explain results in the original context.
4. Generate equivalent numerical and algebraic expressions and use algebraic properties to evaluate expressions.
5. Represent real-world and mathematical situations using equations and inequalities involving linear expressions. Solve equations and inequalities symbolically and graphically. Interpret solutions in the original context.
6. Solve problems involving parallel and perpendicular lines on a coordinate system.
7. Interpret data using scatterplots and approximate lines of best fit. Use lines of best fit to draw conclusions about data.

Resources: Pre-Algebra © 2005 McDougal Publishing; Accelerated Math: Algebra 1 - Common Core. Copyright 2015 Pearson Education.
Home/School Connection: http://www.classzone.com & http://www.pearsonrealize.com
Units of Study: Variables & Equation, Integer Operations, Solving Equations & Inequalities, Exponents, Rational Number Operations, Multi-Step Equations & Equalities, Ratio, Proportion & Percent, Polygons, Real Numbers & Right Triangles, Measure/Area/Volume, Patterns & Relationships, Linear Equations & Graphs, Data Analysis & Probability, Polynomials & Functions

SCIENCE: EARTH SCIENCE

1. Understand science is a way of knowing about the natural world that is characterized by empirical criteria, logical argument and skeptical review.
2. Understand scientific inquiry uses multiple interrelated processes to investigate questions and propose explanations about the natural world.
3. Understand men and women throughout the history of all cultures, including Minnesota American Indian tribes and communities; have been involved in engineering design and scientific inquiry. Understand that science and engineering operate in the context of society and both influence and are influenced by this context.
4. Understand current and emerging technologies have enabled humans to develop, use models and communicate how natural and designed systems work and interact.
5. Understand pure substances can be identified by properties independent of the sample of the substance and can be explained by a model of matter that is composed of small particles.
6. Understand substances can undergo physical and/or chemical changes which may change the properties of the substance but do not change the total mass in a closed system.
7. Understand waves involve the transfer of energy without the transfer of matter.
8. Understand the movement of tectonic plates results from interactions among the lithosphere, mantle and core.
9. Understand landforms are the result of the combination of constructive and destructive processes.
10. Understand rocks and rock formations indicate evidence of the materials and conditions that produced them.
11. Understand the sun is the principal external energy source for the Earth.
12. Understand patterns of atmospheric movement influence global climate and local weather.
13. Understand the water cycle is an open system with many inputs.
14. Understand the Earth is the third planet from the sun in a system that includes the moon, the sun, seven other planets and their moons, and smaller objects.
15. Understand in order to maintain and improve their existence, humans interact with and influence Earth systems.

Resources: Science & Technology: Earth Science © 2007 Holt Publishing
Units of Study: Science Safety, Intro to Earth Science, Scientific Method, Astronomy, Meteorology, Geology, Environmental Research, Oceanography

SOCIAL STUDIES

1. Understand how international political and economic institutions influence world affairs and US's foreign policy.
2. Identify factors which affect economic growth and lead to a different standard of living in different countries.
3. Explain why trade is mutually beneficial to countries.
4. Places have physical characteristics & human characteristics.
5. The characteristics, distribution and migration of human populations on the earth's surface influence human systems.
6. Geographic factors influence the distribution, functions, growth and patterns of cities and human settlements.
7. The meaning, use, distribution and importance of resources changes over time.
8. Describe the locations of human populations and their cultural characteristics.
9. Describe the changing role of Latin America, Europe and Russia in the global economy today.
10. Describe how the physical and environmental features of Southwest Asia, North Africa South Asia and Central Asia affect human activity and settlement.
11. Describe how the distribution and development of oil and water resources influence the economy and societies.
12. Identify the characteristics of a market economy that exist in contemporary China.
13. Analyze the role of comparative advantage in the rise of the Indian market economy in the global economic system.
14. Describe independence and nationalist movements in Sub-Saharan Africa and Asia, including India's independence movement.
15. Understand the world after World War II: 1950-1989.
16. Understand the world after World War II: 1950-1989.
17. Understand the world after World War II: 1950-1989.
18. Understand the new global era: 1989 to Present.

Resources: MN Contemporary Human Geography

ROTATIONAL COURSES

(PE and The Arts meet every other day all year)

PHYSICAL EDUCATION & WELLNESS

1. Demonstrate competency in a variety of motor skills and development patterns.
2. Apply knowledge of concepts, principles, strategies and tactics to movement and performance.
3. Demonstrate the knowledge and skills to achieve and maintain a health-enhancing level of physical activity and fitness.
4. Exhibit responsible personal and social behavior in physical activity settings.
5. Recognize the value of physical activity for health, enjoyment, challenge, self-expression, and social interaction.

VISUAL ARTS (or BAND, CHOIR, ORCHESTRA)

1. Create artworks applying and demonstrating line, shape, color, spacer, value, and texture and balance, variety, unity, rhythm, eye movement, and emphasis.
2. Use a variety of materials, media and techniques to create 2- and 3-dimensional works of art.
3. Discuss artwork by applying the 4-step Critical Thinking Model: describe, analyze, interpret, judge.
4. Examine art from various historical & cultural perspectives from the ancient to modern era.

TECHNOLOGY & ENGINEERING

Electronics & Automation

1. Incorporate math, science, and computer programming in an inquiry-based activity.
2. Understand cause and effect to design, build and program a rover.
3. Demonstrate logical and creative problem solving.
4. Develop and use character strength, social interaction, and group cooperation skills to complete a common goal.

Science of Technology

1. Understand the Universal System Model and its application.
2. Demonstrate safety in the technology and work place.
3. Draw a basic floor plan and understand the process involved in building a house.
4. Understand technology systems – as part of the transportation system.
5. Develop problem solving techniques through various projects.
6. Develop design solving techniques through various projects.

Resources: Project Lead the Way

FAMILY & CONSUMER SCIENCES (FACS)

1. Demonstrate wise choices in preparing and serving nutritious foods and meals.
2. Demonstrate basic construction skills including the use of the sewing machine.
3. Recognize the impact of self image and societal influences on decision making.
4. Discuss the impact of parents' choices and actions on the development of children.

Units of Study: Meal Planning, Microware Cooking, Healthy Relationships/Sexual Health, Responsible Relationships, Child Care, Clothing

TESTING REQUIREMENTS AND SCHEDULE

EXPLORE – Late Fall

MN Comprehensive Assessment (MCA):

MCA III Reading – April
MCA III Mathematics – April
MCA III Science – April

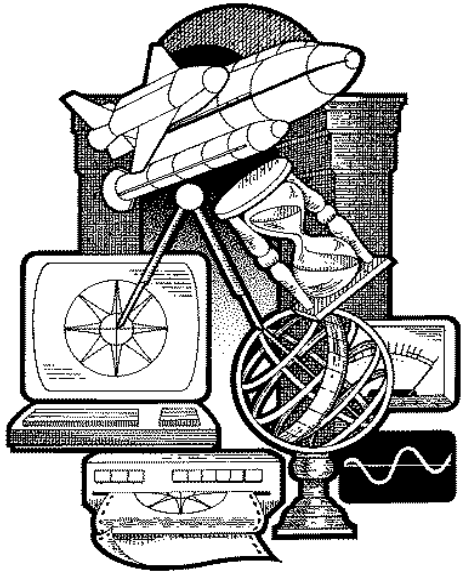
STAR Enterprises:
STAR Reading Test
STAR Mathematics Test

FORESTVIEW MIDDLE SCHOOL
12149 Knollwood Drive
Baxter, MN 56425
218-454-6000

To view the entire set of MN Academic Standards visit MDE at http://education.state.mn.us or www.isd181.org or call 218-454-6970.

CURRICULUM STANDARDS

GRADE 8



2022-2023

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