



# Mallard Creek STEM Academy Academically/Intellectually Gifted Elementary Curriculum

<b>Creative and Productive Thinking</b>
<b>Goal 1:</b> Students will develop techniques that help in the search for innovative solutions and the creation of unique concepts.
<b>Objectives</b>
<b>1.1</b> Demonstrate the ability to use fluency, flexibility, originality, and elaboration in idea production
<b>1.2</b> Demonstrate the use of the brainstorming process in creative problem solving .
<b>1.3</b> Show knowledge of various creative thinking strategies to create an original product
<b>1.4</b> Show knowledge of various creative processes (such as SCAMPER, webbing, brainstorming)
<b>1.5</b> Produce ideas and solutions for real challenges using creativity techniques
<b><i>Suggested Topics of Study:</i></b>  Primary Education Thinking Skills, Figurative Language, Independent Study, Technology Integration, Inventions, Stories with Holes, Book Publishing, Interactive Notebooking, Service Learning

\*Note: Not all objectives will be taught each year; however, over the course of Grades 1-5, all objectives will be taught.



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<b>Problem Solving</b>
<b>Goal 2:</b> Students will learn strategies for rational decision-making and apply them to problems and issues in today's world.
<b>Objectives</b>
2.1 Demonstrate understanding of a variety of problem solving skills
2.2 Develop problem solving techniques and group generated solutions
2.3 Apply problem-solving strategies to class-based situations, such as math word problems and conflict resolution
2.4 Apply problem solving strategies to real-life situations
<b><i>Suggested Topics of Study:</i></b>  Measurement, Architecture and Math, PETS Logic, Math in the Real World, Inventors and Inventions, Math Olympiad, Robotics, CSI, Junior Achievement, PBL, Service Learning

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<b>Thinking Skills</b>
<b>Goal 3:</b> Students will make connections between present knowledge and new information, derived from varied materials and environments. They will identify premises, analyze relationships and validate conclusions.
<b>Objectives</b>
3.1 Implement techniques for convergent and divergent thinking, such as deductive and analogous reasoning
3.2 Develop strategies for critical thinking through abstract concepts, connections and generalizations
3.3 Develop techniques for inductive inquiry
3.4 Develop skills of visualization and spatial perception
3.5 Understand the nature of thinking and apply meta cognition (Revised Bloom’s Taxonomy and Jacob’s Ladder)
3.6 Develop reflection and self-evaluation skills
<b><i>Suggested Topics of Study:</i></b>
Primary Education Thinking Skills, Tessellations, Architecture and Math, Newton’s Laws of Motion, Aviation and Rocketry, Robotics, Service Learning, Self-Evaluations, Multiple Intelligences, Technology Integration, Analogies, Kohlberg’s Moral Dilemmas, Debate

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Research
<b>Goal 4:</b> Students will make effective decisions about the identification, implementation and presentation of ideas.
<b>Objectives</b>
4.1 Independently state a topic as a research question by: <ul style="list-style-type: none"> <li>• identifying concepts</li> <li>• broadening and narrowing</li> <li>• translating the question into a searchable query</li> </ul>
4.2 Conduct and plan independent studies and research projects using: <ul style="list-style-type: none"> <li>• action plans</li> <li>• time management skills</li> <li>• study skills</li> <li>• appropriate documentation</li> <li>• multiple primary, secondary sources</li> <li>• self-assessment</li> </ul>
4.3 Evaluate research sources for relevance and accuracy
4.4 Understand appropriate usage with regard to copyright and patent law.
4.5 Analyze information to create a meaningful format/product
4.6 Reflect upon and personally interpret research results
<b><i>Suggested Topics of Study:</i></b>
World Cultures, Famous Americans, Historic Cabarrus County, NC People and Places, Symbols, Genealogy, Inventors and Inventions, Immigration and Exploration, Presidential History, Service Learning, Shakespeare Unit, Independent Study, Big 6 Research Skills, Election and Government, The Independent Investigation Method (IIM), Technology Integration

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<b>Personal Growth</b>
<b>Goal 5:</b> Students will recognize their individual strengths, needs and interests, and develop skills to achieve their potential while making meaningful contributions to society.
<b>Objectives</b>
5.1 Analyze and clarify feelings on being gifted, and explore related social and emotional issues
5.2 Gain an understanding and respect for each person’s abilities, and recognize the similarities and differences between oneself and others
5.3 Explore feelings about a variety of ethical, moral, and cultural issues
5.4 Develop respect for self and empathy for others
5.5 Develop awareness for one’s own learning profile and area(s) of giftedness
5.6 Develop self-monitoring skills for personal interactions
5.7 Demonstrate leadership and self-advocacy skills
5.8 Develop, pursue, and adjust short- and long- term personal and academic goals
<b><i>Suggested Topics of Study:</i></b>  Cultures, <u>Gifted Kid’s Survival Guide</u> Book Study, Expert Study, Genealogy, Service Learning, <u>How to Be a Durable Person</u> Activities, Multiple Intelligences, Self-Evaluations, Public Speaking, Independent Study, Career Exploration, Gifted Like Me Unit, Interactive Notebooking, Junior Achievement

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<h2 style="color: #0070C0;">Communication</h2>
<b>Goal 6:</b> Students will use effective communication skills to construct knowledge and interact with others through a variety of techniques and media.
<b>Objectives</b>
6.1 Participate effectively in a large group discussion. The student will edit and refine information, concepts and ideas to be reported individually and in groups to ensure quality products
6.2 Communicate verbally, recognizing and practicing techniques of public speaking, appropriate to a specific audience
6.3 Create, develop and deliver presentations in a variety of formats using various multi-media tools
6.4 Develop skills for delivery and acceptance of constructive criticism, peer and teacher review and self-evaluation
6.5 Identify and solve problems using appropriate communication skills in a collaborative endeavor.
<b><i>Suggested Topics of Study:</i></b>
Public Speaking, Self and Peer-Evaluations, Seminar, Technology Integration, Social Media, Debate, Science and Math Fairs, Math Olympiad, Living Museums, Product Presentations, Book Publishing, Service Learning

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