**LANGUAGE ARTS**

**Standard 1:** Students learn and effectively apply a variety of reading strategies for comprehending, interpreting and evaluating a wide range of texts including fiction, nonfiction, classic and contemporary works.

**Proficiency**
- R-P1. Apply reading strategies such as extracting, summarizing, clarifying, and interpreting information; predicting events and extending the ideas presented; relating new information to prior knowledge; supporting assertions with evidence; and making useful connections to other topics to comprehend works of literature and documents.

**Standard 2:** Students effectively use written language for a variety of purposes and with a variety of audiences.

**Essentials:**
- W-E1. Use correct spelling, punctuation, capitalization, grammar and usage, along with varied sentence structure and paragraph organization, to complete effectively a variety of writing tasks.
- W-E4. Write an expository essay that contains effective introductory and summary statements and fully develops the ideas with details, facts, examples and descriptions.
- W-E5. Write a report that conveys a point of view and develops a topic with appropriate facts, details, examples and descriptions from a variety of cited sources.
- W-E8. Demonstrate research skills using reference materials such as a dictionary, encyclopedia and thesaurus to complete effectively a variety of writing tasks.

**Proficiency**
- W-P1. Use transitional devices; varied sentence structures; the active voice; parallel structures; supporting details, phrases and clauses; and correct spelling, punctuation, capitalization, grammar and usage to sharpen the focus and clarify the meaning of their writings.
- W-P2. Write a persuasive essay that contains effective introductory and summary statements; arrange the arguments effectively; and fully develop the ideas with convincing proof, details, facts, examples and descriptions.
- W-P4. Craft a cohesive research document that develops a logical argument or thesis; contains comprehensive, supporting information from a variety of credible and cited resources; and conforms to a style manual.

**Distinction**
- W-D3. Analyze, synthesize, evaluate and apply principles of formal logic in expository writing tasks.

**Standard 3:** Students effectively listen and speak in situations that serve different purposes and involve a variety of audiences.

**Essentials:**
- Prepare and deliver an organized speech and effectively convey the message through verbal and nonverbal communications with a specific audience.
- Prepare and deliver an oral report in a content area and effectively convey the information through verbal and nonverbal communications with a specific audience.
- Interpret and respond to questions and evaluate responses both as interviewer and interviewee.

**Proficiency**
- Deliver a polished speech that is organized and well suited to the audience and that uses resource materials to clarify and defend positions.
- Evaluate the effectiveness of informal and formal presentations that use illustrations, statistics, comparisons and analogies.

**Distinction**
- Use clear and concise language when presenting analytical responses to literature, conveying technical information, and explaining complex concepts and procedure.
- Communicate information expressively, informatively and analytically through a variety of media to audiences inside or outside of school.
Standard 4: Students use a variety of visual media and resources to gather, evaluate and synthesize information and to communicate with others.

Essentials
- Plan, develop and produce a visual presentation, using a variety of media such as videos, films, newspapers, magazines and computer images

Proficiency
- Plan, organize, develop, produce and evaluate an effective multimedia presentation, using tools such as chart, photographs, maps, table, poster, transparencies, slides and electronic media

Distinction
- Expand abilities in developing multimedia presentations

SCIENCE

SCHS-S1C1-01, 04           SC08-S1C4-01 THRU 03, 05
SCHS-S1C2-05
SC08-S1C3-01 THRU 08
SCHS-S1C3-01, 03, 04, 06, 07, 08
SCHS-S1C4-01 THRU 04
SCHS-S4C4-01 THRU 03

TECHNOLOGY

Standard 2: Students know how to solve problems by using current technologies to conduct research, analyze solutions and present results.

Essentials
- Compose and edit a multi-page document with appropriate formatting at the keyboard, using word-processing skills, writing process steps, and principles of design
- Plan, produce and present a multi-media presentation that is tailored to an audience and clearly communicates its purpose
- Cite resources in written documents and presentations
- Use software features

Proficiency
- Select and use appropriate technologies to gather, process and analyze data and to report information related to an investigation
- Plan, produce and present an effective multi-media presentation using visual media, including cartoons, computer images, charts, photographs, maps and tables, to communicate the intended purpose to the audience

Distinction
- Integrate various technologies to produce documents/communications
- Implement conditional statements that include if/then, if/then, if/then/else, case statements and Boolean logic

Standard 3: Students evaluate the impact of technology (e.g., benefits, costs, risks) on individuals, society and the environment.

Essentials
- Describe the worldwide distribution and use of resources and how technology affects the definition of, access to and use of resources

Proficiency
- Understand the nature of technologies, including agriculture, with emphasis on both the agricultural revolution in ancient times and the effects of the use of biological and chemical technologies on 20th century agricultural productivity
- Describe the effects of technology on the development and change of culture

Distinction
- Assemble a community-based needs assessment, utilizing existing technology, and create an action plan for improvement
Standard 4: Students understand the interrelationships of knowledge and how they are used to solve technology problems in school, the workplace and society.

Distinction
- Explore the scientific and technological aspects of contemporary problems

MATHEMATICS

Standard 1: Students develop number sense and use numbers and number relationships to acquire basic facts, to solve a wide variety of real-world problems, and to determine the reasonableness of results.

Essentials
- 1M-E1. Read, write and order integers, whole numbers and rational numbers
- 1M-E6. Recognize that the degree of precision needed in calculating a number depends on how the results will be used and the instruments used to generate the measurements

Proficiency
- 1M-P2. Construct, interpret and demonstrate meaning for real numbers and absolute value in problem-solving situations

Standard 2: Students use data collection and analysis, statistics, and probability to make valid inferences, decisions and arguments and to solve a variety of real-world problems.

Essentials
- 2M-E1. Construct, read, analyze and interpret tables, charts, graphs and data plots
- 2M-E2. Make valid inferences, predictions and arguments based on statistical analysis
- 2M-E5. Determine probabilities through experiments and/or simulations and compare the results with the mathematical expectation

Proficiency
- 2M-P1. Construct and draw inferences including measures of central tendency, from charts, tables, graphs and data plots that summarize data from real world situations
- 2M-P2. Use appropriate technology to display and analyze data.

Distinction
- 2M-D1. Transform data to aid in data interpretation and prediction

Standard 6: Students use both inductive and deductive reasoning as they make conjectures and test the validity of arguments.

Essentials
- 6M-E3. Use if...then statements to construct simple valid arguments

Proficiency
- 6M-P1. Use inductive and deductive logic to construct simple valid arguments
- 6M-P2. Determine the validity of arguments
- 6M-P3. Formulate counter examples and use indirect proof

Distinction
- 6M-D3. Construct proofs for mathematical assertions, including indirect proofs and proofs by mathematical induction