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ROCHESTER FALCONCAM

The Rochester Falconcam curriculum supports the following New York State Learning Standards.

English Language Arts Learning Standards:

Standard 1: Students will read, write, listen, and speak for information and understanding.

As listeners and readers, students will collect data, facts, and ideas; discover relationships, concepts, and generalizations; and use knowledge generated from oral, written, and electronically produced texts. As speakers and writers, they will use oral and written language to acquire, interpret, apply, and transmit information.

Standard 2: Student will read, write, listen, and speak for literary response and expression.

Students will read and listen to oral, written, and electronically produced texts and performances, relate text and performances to their own lives, and develop an understanding of diverse social, historical, and cultural dimensions the texts and performances represent. As speakers and writers, students will use oral and written language for self-expression and artistic creation.

Mathematics, Science, and Technology Learning Standards

Standard 1: Inquiry

Students will use mathematical analysis, scientific inquiry, and engineering design as appropriate, to pose questions, seek answers, and develop solutions.

Key Idea: The central purpose of scientific inquiry is to develop explanations of natural phenomena in a continuing, creative process

Standard 3: Mathematics (2005)

Students will understand mathematics and become mathematically confident by communicating and reasoning mathematically, by applying mathematics in real-world settings, and by solving problems through the integrated study of number systems, geometry, algebra, data analysis, probability, and trigonometry.

Standard 4: Living environment

Students will: understand and apply scientific concepts, principles, and theories pertaining to the physical setting and living environment and recognize the historical development of ideas in science.

1. Key Idea: Living things are both similar to and different from each other and nonliving things.

2. Key Idea: Individual organisms and species change over time.

3. Key Idea: The continuity of life is sustained through reproduction and development.

4. Key Idea: Organisms maintain a dynamic equilibrium that sustains life.

5. Key Idea: Plants and animals depend on each other and their physical environment.

6. Key Idea: Human decisions and activities have had a profound impact on the physical and living environment.