

## **Kentucky Learning Goals and Academic Expectations:**

### **Goal 1: Use Basic Communication and Mathematical Skills.**

- 1.1 Students use research tools to locate sources of information and ideas relevant to a specific need or problem.
- 1.2 Students construct meaning from a variety of print materials for a variety of purposes through reading.
- 1.6 Students manipulate information and communicate ideas with a variety of computational algorithms.
- 1.9 Students organize information and communicate ideas by algebraic and geometric reasoning such as relations, patterns, variations, unknown quantities, deductive and inductive processes.

### **Goal 2: Apply Core Concepts and Principles**

- 2.3 Students identify and analyze systems and the ways their components work together or affect each other.
- 2.4 Students use the concept of scale and scientific models to explain the organization and functioning of living and nonliving things and predict other characteristics that might be observed.
- 2.7 Students understand number concepts and use numbers appropriately and accurately.
- 2.8 Students understand various mathematical procedures and use them appropriately and accurately.
- 2.10 Students understand measurement concepts and use measurements appropriately and accurately.
- 2.12 Students understand mathematical structure concepts, including the properties and logic of various mathematical systems.

### Goal 3: Become Self-Sufficient

- 3.3 Students demonstrate the ability to be adaptable and flexible through appropriate tasks or projects.
- 3.4 Students demonstrate the ability to be resourceful and creative.
- 3.7 Students demonstrate the ability to learn on one's own.

### Goal 4: Become Responsible Group Members

- 4.2 Students use productive team membership skills.
- 4.4 Students demonstrate the ability to accept the rights and responsibilities for self and others.

### Goal 5: Think and Solve Problems

- 5.2 Students use creative-thinking skills to develop or invent novel, constructive ideas or products.
- 5.4 Students use a decision-making process to make informed decisions among options.
- 5.5 Students use problem-solving processes to develop solutions to relatively complex problems.

### Goal 6: Connect and Integrate Knowledge

- 6.2 Students use what they already know to acquire new knowledge, develop new skills, or interpret new experiences.
- 6.3 Students expand their understanding of existing knowledge by making connections with new knowledge, skills, and experiences.