Upper Moreland Township School District
2900 Terwood Road
Willow Grove, PA 19090

Planned Course for Business and Technology

Course: Fourth Grade Business and Technology

PA Academic Standards for Business, Computer and Information Technology

15.1.2 Accounting
15.2.2 Career Management
15.3.2 Communication
15.4.2 Computer and Information Technologies
15.6.2 Finance and Economics
15.9.2 Marketing

ISTE Standards

1. Empowered Learner
2. Digital Citizen
3. Knowledge Constructor
4. Innovative Designer
5. Computational Thinker
6. Creative Communicator

PA Academic Standards for Career Education and Work

13.1.3 Career Awareness and Preparation
13.2.3 Career Acquisition
13.3.3 Career Retention and Advancement
13.4.8 Entrepreneurship

CSTA Standards

1A-CS – Computing Systems
1A-NI – Networks and the Internet
1A-DA – Data & Analysis
1A-AP – Algorithms & Programming

Course Description:
The K-8 Business, Computer and Information Technology program is standards-based. It is designed to help students build the knowledge and skills that will enable them to be productive and innovative learners in the ever-changing world. The curriculum is organized to include the following four focus areas: coding, digital citizenship, application/skill and financial literacy. Each focus area helps students develop the essential skills of communication, collaboration, critical thinking, and creativity. The program is progressive and developmentally sequential across grade levels. It reflects the increasing complexity and rigor that will provide students with the foundations for a career in tomorrow's workforce.

The fourth grade course is designed to enable students to develop 21st Century skills. Fourth grade students will develop computer programming skills by determining potential solutions and trouble-shooting strategies to ensure a strong foundation in computational thinking. Guided practice activities that reinforce financial knowledge and skills will be used to teach financial literacy.

Fourth grade students will establish proficiency in computer operations and demonstrate the strategic use of technology tools to problem solve and create products. Students will refine skills using word processing, graphing, spreadsheets, presentation software, and communication

devices. Fourth graders will utilize the full keyboard, continuing their instruction in the touch typing method. Developing their critical thinking and problem solving skills, students will complete coding challenges using a variety of technologies. Through continual reinforcement of the Upper Moreland School District Acceptable Use Policy, students will engage in safe, real world collaboration and communication opportunities and display proper netiquette. An on-going emphasis will be placed on career based skills and financial literacy.

In collaboration with the librarian, the business and technology teacher will help students use the Big 6 research inquiry process to locate, analyze, evaluate and synthesize information. Students will also exercise proper ethics when using informational resources and digital media.

Specific and measurable objectives to be attained by students:
Specific objectives for this course are aligned to the ISTE and CSTA Standards, as well as the Pennsylvania State Standards outlined in the scope and sequence document for Grade 4 Business and Technology.

Materials:

Coding: Ozobots, Code.org, Learning.com, Bloxels

Digital Citizenship: Common Sense Media, Learning.com, EverFi

Financial Literacy: Learning.com, EverFi

Application/Skill: Microsoft Office Professional Suite, Google Suite, Learning.com, iPads, Apps on iPads, Computer for each student, SmartBoard, Printer

Instructional Strategies:
A standards-based program requires that our students develop thinking processes that are self-directed, creative, critical, and reflective. Instructional activities include the following best practices:

- Modeling
- Guided Practice
- Collaboration
- Whole Group Discussions
- Hands-on Activities
- Think-Pair-Share
- Teacher/Student Conferencing
- Peer Conferencing
- Direct Instruction
- Spaced Practice
- Vocabulary Instruction

- Summarizing
- Note Taking
- Class Discussion
- Self-Questioning
- Concept Mapping
- Reciprocal Teaching
- Problem Solving
- Identifying Similarities and Differences
- Extended Writing
- Peer Tutoring
- Debates/Formal Discussion

Estimated instructional time to be devoted to achieving objectives:
40 minute classes, approximately 30 classes a year

Forms of Assessment:
A variety of assessments will be used to determine student progress. The Assessment Plan includes the following components:

- Teacher Observations
- Rubrics
- Checklists
- Participation

An explanation of how student grades will be determined:
Students will be evaluated in the areas of class work, class participation, and teacher observation. A minimum of three performance tasks will be considered in determining the student's grade.