Course Syllabus

Description:
The Elementary Introduction to Technology courses will enable students to develop basic skills in computer science through engaging and age-appropriate content. The courses will expose students, within developmentally appropriate stages, to concepts such as problem solving and algorithms, security/privacy/copyright, computer programming basics and keyboarding skills. Students will learn block-based coding in offline environments in kindergarten through 2nd grade and will build upon those skills in online coding environments in grades 2–5. In addition to the computer skills, the Technology suite integrates standards from Health and Language Arts with topics in each grade about safety and health (online and offline), bullying/cyberbullying, and being a responsible citizen/digital citizen. The upper grades will complete research focused on adaptive technology, social media and/or robotics. The research will require students to evaluate reliable and relevant websites, organize data, receive and implement feedback, and produce a digital artifact.

Estimated Completion Time: 36 weeks

Major Topics and Concepts:
Digital Footprints Module One

- 01.00 Digital Footprints Module One Pretest
- 01.01 Computers and Me
- 01.02 Staying Safe Online
- 01.03 Bloom with Elodie
- 01.04 Digital Footprints Module One Review and Discussion-Based Assessment
- 01.05 Digital Footprints Module One Assessment

Cyber Safety Module Two

- 02.00 Cyber Safety Module Two Pretest
- 02.01 Code Your Own Program
- 02.02 Operating Systems
- 02.03 Staying Organized
- 02.04 Pro at Proactive
- 02.05 Coding with Scratch
- 02.06 The Search for Truth Online
- 02.07 Cyber Safety Module Two Review and Discussion-Based Assessment
- 02.08 Cyber Safety Module Two Assessment

Citation Nation Module Three

- 03.00 Citation Nation Module Three Pretest
- 03.01 Who owns it?
- 03.02 Research Expert
- 03.03 Tips and Tricks
- 03.04 Coding with Sparky
- 03.05 Proofing and Formatting
- 03.06 Citation Nation Module Three Review and Discussion-Based Assessment
- 03.07 Citation Nation Module Three Assessment

Media Mix Up Module Four

- 04.00 Media Mix Up Module Four Pretest
- 04.01 Get Into Code Mode
- 04.02 Spice It Up
- 04.03 Revising My Work
- 04.04 Let's Organize
- 04.05 Media Mix Up Module Four Review and Discussion-Based Assessment
- 04.06 Media Mix Up Module Four Assessment

Course Assessment and Participation Requirements:
To achieve success, students are expected to submit work in each course weekly. Students can learn at their own pace; however, “any pace” still means that students must make progress in the course every week. To measure learning, students complete self-checks, practice lessons, multiple choice questions, projects, discussion-based assessments, and discussions. Students are expected to maintain regular contact with teachers; the minimum requirement is monthly. When teachers, students, and parents work together, students are successful.

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