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 Social Studies, 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 projects focused on adaptive technology, social media and/or robotics. The research projects require students to evaluate reliable and relevant websites, organize research, receive and implement feedback, and produce a final product. Collaboration and communication are also focused on in each grade level as integrated language arts standards and the math practice standards can be found throughout the courses.

Estimated Completion Time: 36 weeks

Major Topics and Concepts:

Talk It Out Module One

- 01.00 Talk It Out Module One Pretest
- 01.01 Communication

- 01.02 Who made the first computer?
- 01.03 On The Hunt For Computers
- 01.04 How To Handle Electronic Devices
- 01.05 Talk It Out Module One Review And Discussion-Based Assessment
- 01.06 Talk It Out Module One Assessment

My Digital World Module Two

- 02.00 My Digital World Module Two Pretest
- 02.01 Making Tasks Easier
- 02.02 What is a digital artifact?
- 02.03 Using Computers At Work
- 02.04 Search And Send
- 02.05 My Digital World Module Two Review And Discussion-Based Assessment
- 02.06 My Digital World Module Two Assessment

Super Digital Citizen Module Three

- 03.00 Super Digital Citizen Module Three Pretest
- 03.01 Cyber Safety
- 03.02 What is cyberbullying?
- 03.03 Balancing Act
- 03.04 Be A Digital Citizen
- 03.05 Super Digital Citizen Module Three Review And Discussion-Based Assessment
- 03.06 Super Digital Citizen Module Three Assessment

Task Attack Module Four

- 04.00 Task Attack Module Four Pretest
- 04.01 Problem Equals Solution
- 04.02 It's so simple!

- 04.03 Algorithm Rhythm
- 04.04 Thinking Like A Programmer
- 04.05 Details, Details, Details
- 04.06 Task Attack Module Four Review And Discussion-Based Assessment
- 04.07 Task Attack 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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