Course Syllabus

Description:
The elementary Introductory 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:

Tech Smart Module One

- 01.00 Tech Smart Module One Pretest
- 01.01 Missing Rules
- 01.02 Technology Helps

- 01.03 A Coding Safari
- 01.04 Computer Nation
- 01.05 The Codi Desert
- 01.06 Tech Smart Module One Review And Discussion-Based Assessment
- 01.07 Tech Smart Module One Assessment

Digital Dilemmas Module Two

- 02.00 Digital Dilemmas Module Two Pretest
- 02.01 Is your computer frozen?
- 02.02 Safari Adventure
- 02.03 Getting Loopy
- 02.04 Digital Dilemmas Module Two Review And Discussion-Based Assessment
- 02.05 Digital Dilemmas Module Two Assessment

Keys To Success Module Three

- 03.00 Keys To Success Module Three Pretest
- 03.01 Rock It, Rocket
- 03.02 Under The Big Tent
- 03.03 The Key To Keywords And Searches
- 03.04 How do you search?
- 03.05 The Winter Kingdom
- 03.06 Keys To Success Module Three Review And Discussion-Based Assessment
- 03.07 Keys To Success Module Three Assessment

Project Pathway Module Four

- 04.00 Project Pathway Module Four Pretest
- 04.01 Project Pathway
- 04.02 Dive Into The World Of Media

- 04.03 Run With Marco
- 04.04 Data, Data, Everywhere
- 04.05 Put It All Together
- 04.06 Project Pathway Module Four Review And Discussion-Based Assessment
- 04.07 Project Pathway 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 lesson, 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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