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:
Robot Exploration Module One

- 01.00 Robot Exploration Module One Pretest
- 01.01 The Viking Robots of Datanorse
- 01.02 Viktor and Astrid Learn About Software
- 01.03 I Am a Digital Citizen
- 01.04 Robot Exploration Module One Review and Discussion-Based Assessment
- 01.05 Robot Exploration Module One Assessment

Communication Zone Module Two

- 02.00 Communication Zone Module Two Pretest
- 02.01 The Me in Social Media
- 02.02 Finding the Right Stuff
- 02.03 Keeping Track
- 02.04 Coding Fun and Games
- 02.05 Communication Zone Module Two Review and Discussion-Based Assessment
- 02.06 Communication Zone Module Two Assessment

Be Social Module Three

- 03.00 Be Social Module Three Pretest
- 03.01 In My Opinion
- 03.02 Excel with Data
- 03.03 Enter the Data
- 03.04 Polishing Up
- 03.05 Be Social Module Three Review and Discussion-Based Assessment
- 03.06 Be Social Module Three Assessment

Presentation Station Module Four

- 04.00 Presentation Station Module Four Pretest
- 04.01 A Coding Story
- 04.02 Star of the Show
- 04.03 Shine with PowerPoint Online
- 04.04 Now You're Styling
- 04.05 A Pleasing Presentation
- 04.06 Make It Great
- 04.07 The Final Steps
- 04.08 Presentation Station Module Four Review and Discussion-Based Assessment
- 04.09 Presentation Station 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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