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 Computer Science 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:
Our Tech World Module One

- 01.00 Our Tech World Module One Pretest
- 01.01 Training with Miriam and Ziggy
- 01.02 Honeycomb Garden
- 01.03 Technology Olympics
- 01.04 The Scoop on Technology
- 01.05 Our Tech World Module One Review and Discussion-Based Assessment

- 01.06 Our Tech World Module One Assessment

Solve It Module Two

- 02.00 Solve It Module Two Pretest
- 02.01 Ode to Code
- 02.02 Raise Your Paws
- 02.03 Is it the best solution?
- 02.04 For the Love of Honey
- 02.05 Solve It Module Two Review and Discussion-Based Assessment
- 02.06 Solve It Module Two Assessment

Brainy Parts Module Three

- 03.00 Brainy Parts Module Three Pretest
- 03.01 Computer Brain
- 03.02 I Need More Parts
- 03.03 The Adapt in Adaptive Technology
- 03.04 Coach Aiko's Conditional Statements
- 03.05 Where can I find it?
- 03.06 Writer's Workshop
- 03.07 Brainy Parts Module Three Review and Discussion-Based Assessment
- 03.08 Brainy Parts Module Three Assessment

Tech Tools Module Four

- 04.00 Tech Tools Module Four Pretest
- 04.01 Entertain, convince, or inform?
- 04.02 What is your purpose?
- 04.03 I Am Growing
- 04.04 Function Junction
- 04.05 Tech Tools Module Four Review and Discussion-Based Assessment
- 04.06 Tech Tools 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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