

Estelline School District Computer Science Curriculum Pathway

Revised October 2019

Computer Science Fundamentals Grades K-5 - is focused on the integration of computer science concepts in elementary math, science, and english language arts.

Critical Thinking

- Students will demonstrate efficient knowledge of block programming.

Digital Citizenship

- Students will demonstrate knowledge of how to protect themselves online.

Word Processing

- Students will demonstrate efficient knowledge of word processing tools. (Office & Google Apps)

Keyboarding

- Students will be able to type 40 wpm with 90% accuracy.

Computer Science Discoveries and Foundations MS Grades 6 - 8 - is introductory computer science courses designed for middle school.

Critical Thinking

- Students will demonstrate mastery in block programming.

Digital Citizenship

- Students will demonstrate knowledge in determining validity online.

Word Processing

- Students will demonstrate mastery in using word processing tools. (Office & Google Apps)

Keyboarding

- Students will be able to type 50 wpm with 90% accuracy.

Exploring Computer Science Grades 9 - 10 - is an introduction to computer science at the high school level.

Critical Thinking

- Students will demonstrate knowledge of basic programming. (Java Script, Python, HTML)

Digital Citizenship

- Students will demonstrate knowledge to determine validity online.

Word Processing

- Students will demonstrate efficiency in using a variety of tools to produce works.

Keyboarding

- Students will have mastery of keyboarding skills with great accuracy and speed.

Computers Science Principles including AP Computer Science Principles Grades 11 - 12 is recommended as a following-up courses to Exploring Computer Science.

Critical Thinking

- Students will demonstrate mastery of robotics & advanced programming. (Python, C, Javascript, HTML, Swift)

Digital Citizenship

- Students will demonstrate mastery of appropriate uses for technology, and online validity.

Word Processing

- Students will demonstrate mastery in using a variety of tools to produce works.

Keyboarding

- Students will have mastery of keyboarding skills with great accuracy and speed.

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