

# Introduction to Digital Technology

Introduction to Digital Technology is a high school level course being offered to 8<sup>th</sup> grade students. This class is designed for students to understand, communicate, and adapt to a digital world as it impacts their personal life, society, and the business world. Exposure to foundational knowledge in hardware, software and programming are all taught in a computer lab with hands-on activities and project-focused tasks. Employability skills are integrated into activities, tasks, and projects throughout the course to demonstrate the skills required by business and industry.

Year-long in length, this class is the introductory course for two diploma pathways offered at Centennial: Programming, and Computer Science. After completing this course, students may take

- Computer Science (Programming pathway)
- Computer Science Principles (Computer Science pathway)

<b>Programming Pathway</b>
Introduction to Digital Technology*
Computer Science 11.4710000
Programming, Games Apps and Society* 11.4720000

<b>Computer Science Pathway</b>
Introduction to Digital Technology*
AP Computer Science Principles*
AP Computer Science* 11.0160010

Course requirements:

- Individuals considering this course should be self-motivated and dedicated to improving their understanding of math and science principles.
- Individuals enrolled in Introduction to Digital Technology should understand that this course is for 1 high school credit. Assignments, projects and assessments will be of equal rigor to the high school Introduction to Digital Technology curriculum.
- Students will be expected to complete the full year once they are enrolled in the Introduction to Digital Technology class (except for extenuating circumstances, no student will be able to drop the class once enrolled).
- Students will have the option to opt-out of the high school credit once the final grade is earned.

Please submit a completed Introduction to Digital Technology application to Mr. McCown. The class is limited to 24 openings. All applications will be reviewed based on the application, and students will be notified if they were accepted into the course.

## Due February 21<sup>st</sup>

# Introduction to Digital Technology Application

## Haynes Bridge Middle School

Student Name \_\_\_\_\_

Circle if you are in:

Parent Name \_\_\_\_\_

Band

Chorus

Orchestra

Parent phone number \_\_\_\_\_

Circle if you are also applying to:

Parent Email \_\_\_\_\_

High School Art

High School Healthcare

What math course did you take in 7<sup>th</sup> grade? \_\_\_\_\_ What grade did you earn? \_\_\_\_\_

1. Briefly explain why you are interested in Introduction to Digital Technology.

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2. Your school receives 100 phone calls a day and which takes up a considerable amount of the front office staffs time. Briefly describe how you would approach the process of creating a solution to their problem.

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3. Briefly explain how you foresee digital technology influencing your future.

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4. What does it mean to be a digital citizen?

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5. What would you personally want to learn in this course?

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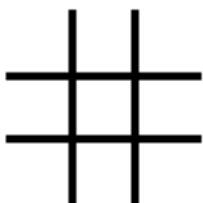
6. Do you have prior experience programming (none required)? If so please briefly explain?

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A) Can you place six X's on a Tic Tac Toe board without making three-in-a-row in any direction?

B) Nine dots are arranged in a three by three square. Connect each of the nine dots using only four straight lines and without lifting your pen from the paper.

A)



B)

