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| **Date Assigned: 9/09/16** | **Date Due: 9/13/16** |
| **Unit:** Basics | **Turn In List:** **1. Terms and 2. Pde for Zoog, history of the computer** |
| *“I will be able describe the major events leading to the evolution of computer technology.”* | |

**Computer History: How it all began.**

**Content Objectives:** Students will be able to site the major events leading to modern technologies related information and information processing. We will also explore custom functions (methods) in Processing.

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| **Starter Activity** |
| Write a custom function (method) for a button with a rounded rectangle, shadow and text. Call it three times on a canvas with custom button text, position and size. |

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| **Key Terms:** | |
| Vacuum Tube | First modern computing device. Ability to temporarily store one of two positions: on or off. Large, expensive, very energy consuming, with short life span. |
| Transistor | Replaced Vacuum Tube, that was very small ( can hold 100 in your hand). Changed the world. Grouping of transistors (group of eight). |
| Integrated Circuit | Caterpillar looking groups of transistors. [IC] |
| Microprocessor | Like integrated Circuit, but smaller, with million or billions of transistors. |
| Punch Card | First with military weapons. Uses binary system to hold a code with punched holes or flat surfaces. A predefined set of instructions for a computer. |
| Mainframe | Save money for businesses. All the hardware in a closet going to many different monitors. |
| PC | [Personal Computer] any computer used for personal reasons; at home, cellphone, laptop. |

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| **Coding Terms:** | |
| function | Any kind of named set of operations under one name. Always signified with parentheses. Method = a function that you write. |
| parameter | Values that you pass into the functions. Inside the parentheses of your function |
| Function call | The name a function is given, also passing in the parameters. |

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| **History and Background:** |
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| **Assignment Tutorial (Setup and Class Demonstration):** |
| Students will create a visual timeline in a new 900 x 400 document spotlighting 8 key events in the history of computers using <http://en.wikipedia.org/wiki/History_of_the_computer> as a reference. Use a custom function for each event to place on the timeline. You will need to refer to the “text()” function and the “String()” class in Processing reference. Create 4 events above and 4 events below the timeline and include a title (see example below).  Macintosh HD:Users:kkapptie:Desktop:Screen Shot 2013-09-16 at 9.40.28 AM.png |

Notes (Points of interest, mistakes, lessons learned, web resources, and thoughts):

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| Characteristics of chips  Clock speed = Measured in Gigahertz  No more speed, just more cores. |