|  |  |
| --- | --- |
| **Date Assigned: 9/14/15** | **Date Due: 9/16/15** |
| **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.

|  |
| --- |
| **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. |

|  |  |
| --- | --- |
| **Key Terms:** | |
| Vacuum Tube | a device that controls [electric current](https://en.wikipedia.org/wiki/Electric_current) between [electrodes](https://en.wikipedia.org/wiki/Electrode) in an [evacuated](https://en.wikipedia.org/wiki/Vacuum) container. Vacuum tubes mostly rely on [thermionic emission](https://en.wikipedia.org/wiki/Thermionic_emission) of electrons from a hot [filament](https://en.wikipedia.org/wiki/Electrical_filament) or a [cathode](https://en.wikipedia.org/wiki/Hot_cathode) heated by the filament. |
| Transistor | a semiconductor device used to amplify and switch electronic signals and electrical power. It is composed of semiconductor material with at least three terminals for connection to an external circuit. |
| Integrated Circuit | a computer processor that incorporates the functions of a computer's central processing unit (CPU) on a single integrated circuit (IC), or at most a few integrated circuits. |
| Microprocessor | a computer processor that incorporates the functions of a computer's central processing unit (CPU) on a single integrated circuit (IC), or at most a few integrated circuits. |
| Punch Card | a piece of [stiff paper](https://en.wikipedia.org/wiki/Paperboard) that contained either commands for controlling [automated machinery](https://en.wikipedia.org/wiki/Automated_machine) or data for [data processing](https://en.wikipedia.org/wiki/Data_processing) applications. |
| Mainframe | a high-performance computer used for large-scale computing purposes that require greater availability and security than a smaller-scale machine can offer. |
| PC | a general-purpose [computer](https://en.wikipedia.org/wiki/Computer) whose size, capabilities and original sale price make it useful for individuals, and is intended to be operated directly by an [end-user](https://en.wikipedia.org/wiki/End-user) with no intervening computer operator |

|  |  |
| --- | --- |
| **Coding Terms:** | |
| function |  |
| parameter |  |
| Function call | Calls a function |

|  |
| --- |
| **History and Background:** |
| The |

|  |
| --- |
| **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):

|  |
| --- |
|  |