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| **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.

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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.  void setup() {  size(400,400);  }  void draw() {  button("This",100,100,100,40);  button("Is",200,200,100,40);  button("Cool",300,300,100,40);  }  void button(String bText, int x, int y, int w, int h) {  rectMode(CENTER);  fill(0);  rect(x-3,y+3,w,h,15);  fill(0,255,0);  rect(x,y,w,h,15);  fill(255,0,0);  textSize(35);  text(bText,x-37,y+12);    } |

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| **Key Terms:** | |
| Vacuum Tube | Device that controls electric current between electrodes in an evacuated container. |
| Transistor | Semiconductor device used to amplify and switch electronic signals and electrical power. |
| Integrated Circuit | Small electronic device made out of a semiconductor material. |
| Microprocessor | 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 | Piece of stiff paper that contained either commands for controlling automated machinery or data for data processing applications. |
| Mainframe |  |
| PC |  |

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| **Coding Terms:** | |
| function |  |
| parameter |  |
| Function call |  |

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

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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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