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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.  //Oliver Flatt  //button test  int wWidth, wHeight;  int state;  int exitPosx, exitPosy, exitw, exith;  Button exit = new Button(100, 100, 300, 200);  void setup()  {  textSize(25);  state = 0;  wWidth = displayWidth - 200;  wHeight = displayHeight - 200;  size(wWidth, wHeight);  }  void draw()  {  makeButton("exit", exit.xPos, exit.yPos, exit.w, exit.h);  makeButton("start", wWidth/2 - 100, wHeight/2 - 50, 200, 100);  makeButton("credits", wWidth/2 - 200, wHeight/2 + 150, 400, 200);  }  void makeButton(String name, int xPos, int yPos, int w, int h)  {  fill(255);  rect(xPos, yPos, w, h, 6, 6, 6, 6);  fill(0);  text(name, xPos + w/2, yPos + h/2);  }  class Button  {  int xPos, yPos, w, h;  Button (int x, int y, int wth, int hgh)  {  xPos = x;  yPos = y;  w = wth;  h = hgh;  }  } |

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| **Key Terms:** | |
| Vacuum Tube | Glass gas-filled or vacuum switches, control flow of electricity. Used in big early computers. |
| Transistor | Tiny electronic switches made of silicon that can be on or off |
| Integrated Circuit | Little chip with a collection of resistors and transistors |
| Microprocessor | CPU on a single little integrated Circuit, all processors are like this now |
| Punch Card | Card with holes in it to represent information that can be fed into a computer |
| Mainframe | Big powerful computer, allows for more security |
| PC | Personal computer, term used to describe desktops now. |

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| **Coding Terms:** | |
| function | Code that takes input, does something, and gives output. |
| parameter | One piece of information that can be changed when calling a function |
| Function call | Calling a function tells the computer to run the instructions of that function with the parameters given. |

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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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