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| **Date Assigned: 9/8/15** | **Date Due: 9/11/15** |
| **Unit:** Basics | **Turn In List:** **1. Terms 2. Zoog.pde** |
| *“I will be able to identify and describe all major sub-systems in a computer.”* | |

**Computer Hardware: What makes a computer a computer…**

**Content Objectives:** Students will be able to identify the 5 required systems defining a modern computer system.

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| **Starter Activity** |
| Draw a face on a 400x400 canvas consisting of the following:   1. A large ellipse for the shape of head 2. A line for mouth 3. A line/s for the nose 4. A ellipses for eyes 5. Optional eyebrows, hair, ears, etc. 6. void setup () { 7. size (400,400); 8. background (255); 9. } 10. void draw () { 11. fill(#F5DA8F); 12. ellipse(200,200,220,300); 13. line(130,260,270,260); 14. fill(255,0,0); 15. ellipse(160,120,35,35); 16. ellipse(240,120,35,35); 17. fill(0); 18. triangle(200,180,205,195,195,195); 19. } |

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| **Key Terms:** | |
| Computer | Device that has a display (video card and monitor), storage, I/O, CPU, and communication. |
| Output: Monitor, Printer | Information is given from computer to user by the processor. |
| Logic: Processor/CPU | Central Processing Unit that processes information in the computer. |
| Storage: RAM, Hard Drive, SSD, CDROM, DVD | RAM=Temporary Hard Drive=Permanent Optical Drive – Any device that can be read by light. |
| Input: Keyboard, mouse | User gives information to the processor inside the computer. |
| Motherboard | Circuit board that connects all computer components. |
| Network Adapter | Hardware that connects computers to networks.3363-- |

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| **Assignment:** |
| Basic:  We will closely examine the setup() and draw() functions.    We will draw a character on the screen with the following code.     1. Students will change the code so that the entire body moves with the mouse in proportion. 2. Students will color background and body parts to their own preference. 3. Students will add four elements either to the character or the background that are fitting for the scene. 4. Students will increase the dimensions of the canvas to a width height between 500-900 pixels. |

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

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