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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(0, 120, 255); 9. } 10. void draw() { 11. fill(#EDE8C4); 12. ellipse(200, 200, 150, 200); 13. stroke(255); 14. line(150, 250, 250, 250); 15. fill(255); 16. ellipse(175,150,50,50); 17. ellipse(225,150,50,50); 18. fill(0); 19. ellipse(175,150,25,25); 20. ellipse(225,150,25,25); 21. fill(255); 22. triangle(201,201,225,225,175,225); 23. } |

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| **Key Terms:** | |
| Computer | Device that has a display(video card) system, storage, input and output, CPU, and communication |
| Output: Monitor, Printer | A method of output used to give information from the computer to the user by the processor. |
| Logic: Processor/CPU | The central processing unit that processes information in the computer/the brain of the computer. |
| Storage: RAM, Hard Drive, SSD, CDROM, DVD | RAM-Temporary storage. Hard Drive-Permanent storage  Any device that can be read by a light/laser |
| Input: Keyboard, mouse | Anything that feed information to the processor inside the computer. |
| Motherboard | /Mainboard. The board that brings all devices together. |
| Network Adapter | Hardware that connects computers to networks |

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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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