AP CSP – Summer Assignment Notes

Section 1 – What is Computing?

History of Computers

- What is a computer (your first thoughts – pause the video and answer this question before moving on)?

- After watching more of the video, what is a computer? Were you close?

- List out the timeline of computers presented in the video.

- What is Moore's Law?

- What is a program?

- Evidence Collection – to be completed within CodeHS platform, but feel free to take notes below:

Computer Organization

- What are the 2 main parts of a computer, and what do they do?

- What is an output device, and what are some examples?

- What is an input device, and what are some examples?

- What are storage devices, what are the two categories and list examples?

- What are network devices?

- What is a router?

Software

- What is software?

- What are the two types of software?

- Which type of software interacts directly with the hardware?

- What are some examples of system software?

- What is a GUI?

- What are common OS's?

- What is a programming language?

Hardware

- What is hardware?

- What is binary?

- What is a bit?

- How many bits in a byte?

- What are the 3 main hardware components of a computer?

- What is RAM? Does it persist after we turn off a computer?

- What is the motherboard, and what does it do?

- What is the CPU, and what does it do?

Future of Computing

- Today's traditional computers use which type of architecture?

- What is meant by deterministic?

- What are the 2 types of new computers talked about?

- Summarize DNA computers:

- Summarize quantum computers:

- What is Artificial Intelligence (AI)?

Additional Notes