

INTRO TO CPU

The CPU in your computer is amazing! It only does one thing at a time. But it does each task very, very quickly. See if you can find the clock speed of your computer. This is the frequency at which your CPU operates.

Watch the video and answer these questions:

1. (Not in video) What is your computer's clock speed?
2. What is the name of the cycle that your CPU repeats billions and billions of times every day?
3. The CPU uses registers to store bits of important data as it processes instructions. Name the three registers mentioned in the video?
4. The CPU processes instructions. Where are these instructions stored?
5. You load MS Word into RAM. What is loaded into RAM first?
6. An instruction has 2 parts. What are they?
7. What is the purpose of the program counter?
8. What is the purpose of the instruction register?
9. What is the purpose of the accumulator?
10. Raw binary data is very difficult for humans to code in. One step up from that is Machine Code. What number system does Machine Code mostly use?
11. What programming language is mentioned in the video that is a higher level language than Machine Code (note: higher level means that it is easier for humans to read)?
12. Python is a programming language. Is it a high level or a low level programming language?
13. What does a compiler do?

What puzzles or questions do you have about this topic? Talk to a classmate if you cannot think of any puzzles or questions. Maybe they have some that you can help them with!

