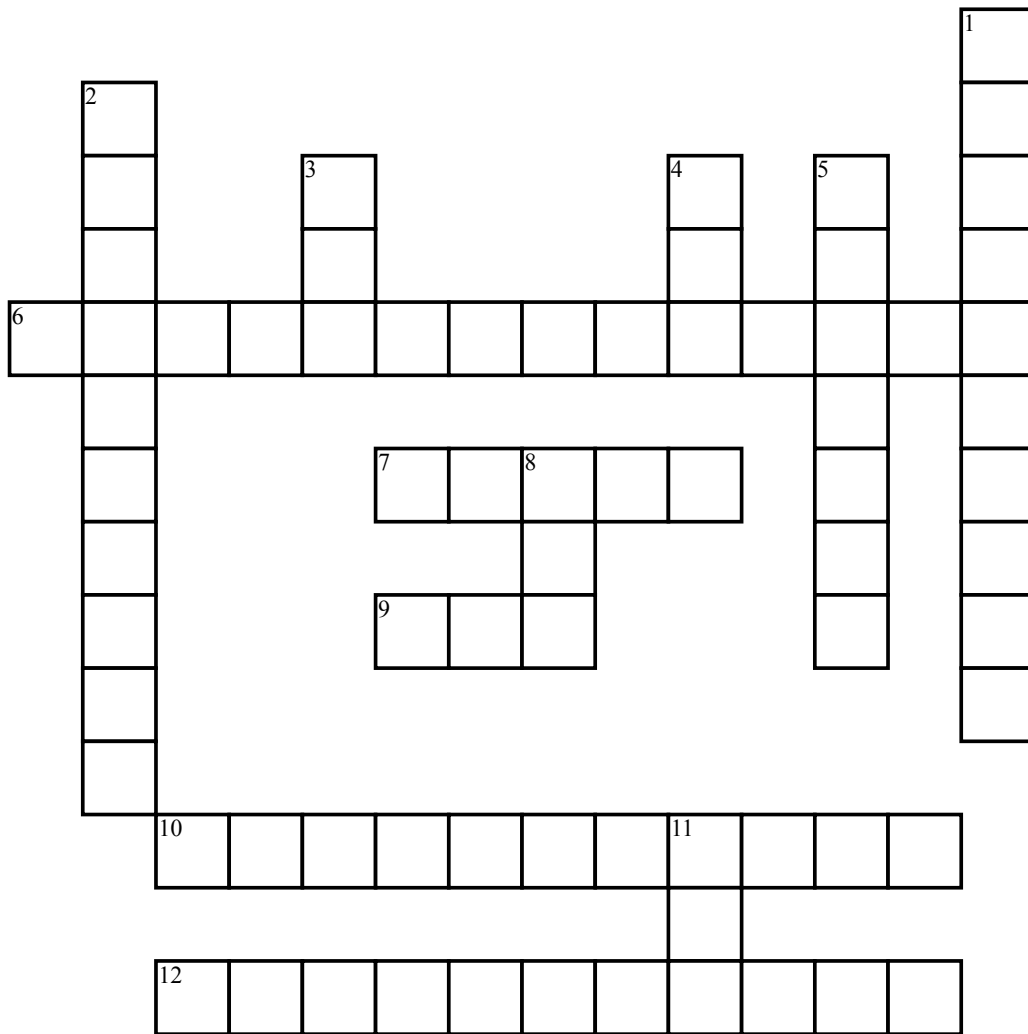# Inside the CPU

Across

6. Stores the momory location of the next instruction to be executed

7. Memory faster than RAM but slower than registers

9. Stores the memory location for data that needs to be fetched from memory or stored in memory

10. Stores the results of calculations made by the ALU

12. Decodes instructions and sends out signals to control how data moves around the CPU

Down

1. Carries control signals between CPU and memory

2. Carries memory addresses for locations to be read from or written to

3. Stores data that has been fetched or is waiting to be sent from memory

4. Abbreviation of Central Processing Unit

5. Carries data between the CPU and memory

8. Stores the most recently fetched instruction while it is waiting to be decoded/executed

11. Carries out calculations and logical decisions required by the program instruction

Word Bank

ProgramCounter	Cache	Data Bus	Address bus
MDR	ControlUnit	Accumulator	CIR
MAR	CPU	ALU	Control Bus