



## **PC**

### **Component recommendations**

- Gaming GPU (Graphics Processing Unit) capable of supporting your titles at up to 144/240 FPS
  - Brands and minimum recommended GPU models:
    - NVIDIA
      - GeForce GTX 1650
    - AMD
      - Radeon RX 570
  - To determine if a GPU will be sufficient for your needs, search the internet for gaming benchmarks of your GPU model and the gaming titles being played
- CPU
  - Manufacturers:
    - Intel
    - AMD
  - Gaming only
    - 4-8 Cores
      - Higher clock speeds (GHz) result in better gaming performance
  - Gaming and content (streaming, video editing, etc)
    - 6-8 cores with Hyperthreading (Intel) or SMT (AMD)
  - Most modern CPUs will be sufficient for esports titles
    - A higher power CPU may be required for streaming, video editing, and content creation
- Motherboard
  - Motherboard socket type must match CPU type (different manufacturers and generations of CPUs have different socket types)
    - Optional features to look at depending on needs:
      - WiFi/Bluetooth support
- RAM
  - 16GB recommended
    - DDR4 3200mhz or faster
- Power Supply
  - 500-750 watt power supply unit
    - Power requirements determined by PC specs. Higher specs typically

result in higher power consumption

- Recommend three amps of power per station
- Storage
  - SSD (solid state drive) recommended for shorter boot and load times
    - Recommend 500 GB total storage
      - Requirements dictated by the number of games and software on PC, may go up or down depending on needs
  - Can implement secondary storage HDD (hard disk drive) for low cost
    - HDD not recommended as primary boot drive due to slower speeds

## **Peripherals**

- Gaming monitor
  - 144hz or 240hz refresh rate
  - Recommend 1080p 24" with response time < 3ms
- Gaming mouse (Most modern "gaming" mice fit the requirements below)
  - 1000 Hz polling rate
  - No pointer acceleration
  - No angle prediction
  - No smoothing
  - 1:1 tracking
  - High max tracking speed
    - <https://thegamingsetup.com/gaming-mouse/buying-guides/flawless-mouse-sensor-list>
    - Recommended brands:
      - Lenovo
      - Steelseries
      - Zowie
      - Razer
      - Finalmouse
- Gaming headset (headset with built-in microphone)
  - Recommended brands:
    - HyperX
    - Astro
    - Steelseries
- Keyboard Options:
  - Standard office keyboard
    - Pros:
      - Inexpensive
    - Cons:
      - Lower quality

- Shorter lifespan
  - Less premium feel
- Mechanical keyboard (utilizes mechanical key switches)
  - Pros:
    - Fast, consistent response time
    - High-quality feel
    - More durable and longer lifespan
      - Multiple size and style options available (60% and tenkeyless keyboards can save on desk space.
  - Cons:
    - Higher price
- Mousepad
  - Recommend larger mouse mats for ample mouse space

Please work with Alex Perez. He will know exactly what you need.  
Access Alliance for Education recommends Lenovo for your facility.