**Affordances of Major Computing Devices**

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| **Devices** | **Constraints** | **Opportunities** | **Optional extras** |
| **Desktop computer** | Stationary  Takes up space  May need peripherals  Platform-specific  Mid-range cost  Generally heavy & bulky  Slow to turn on or shut down  Possible licensing cost  Prone to viruses | Full computing capacity  Loads software  Full keyboard & mouse  Large screen  Easily shared  USB and other ports  Expandable  Updateable  Supports multitasking  Flexible uses  Works without WiFi  Stores files internally | Fixed camera  Microphone  DVD drive  Touch screen  Software  Printer |
| **Laptop computer** | Platform-specific  Fragile  Costly  Can be heavy  Slow to turn on or shut down  Smaller screen  Possible licensing cost  Prone to viruses | Full computing capacity  Portable  Loads software  Full keyboard  USB and other ports  Expandable  Updateable  Supports multitasking  Flexible uses  Works without Wi-Fi  Stores files internally | Fixed camera  Microphone  DVD drive  Touch screen  Mouse  Software  Printer |
| **iPad** | Costly  Fragile  Internet only/Wi-Fi dependent  Does not support Flash  No USB or other ports  Weak support for writing/producing  Difficult keyboard  Single user (no log-on)  No multitasking  Perceived as a games device  Cloud dependent  Does not print  Updated for 3-4 years | Lightweight/Portable  Touch screen  Variety of available apps  Instant on  Long battery life  Great for viewing content  Two-way camera  Supports video recording  Accessible for students with disabilities  No licensing costs  Virus resistant | iOS apps  Keyboard  Keyboard stand |
| **Chromebook** | Internet only/Wi-Fi dependent  Cloud dependent  Does not print  No multitasking  Updated for 6.5 years | Inexpensive  Lightweight/portable  Long battery life  Hard shell  Full keyboard  Fast startup  Individual log-ons  Managed by Google  No licensing costs  Virus resistant  Automatic updates | Fixed camera  Touch screen  Android apps |