

AP Test Review Terms and Concepts-

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- Binary
 - Counting
 - 0/1, On/Off, Yes/No
 - Sending and Receiving
- Internet Delivery- [Video](#)
 - Wires
 - Cables
 - WiFi
- Bit, Bitrate, Latency

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- Number Systems
 - Binary
 - Base 10
 - Hexadecimal
- Flippy Do
- Binary [Video](#)

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- Protocols

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- ASCII- [Video](#)
- Conversion Charts
- Converting- ASCII, Hexidecimal, Binary
- Hexadecimal Numberphile [Video](#)

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- IETF
- Internet for Everyone
- 9 Internet Challenges
- Net Neutrality
- Net Censorship

- ISP

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- Routers
- Redundancy- Multiple WWW Paths
- IP Address
- IP Address
- Packets
- DNS
- I Addresses and DNS [Video](#)

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- TCP
- Fault Tolerant
- IPv4
- IPv6
- DNS Spoofing
- DDoS
- URL
- Firewall
- Packets and Routing [Video](#)
- Warriors of the Net [Video](#)

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- Layers of Web
 - Bits in and Out
 - DNS
 - TCP
 - IP
 - Physical Internet
- Abstraction of Layers
- HTTP & HTML [Video](#)
- HTTPS
- Static/Dynamic Webpage
- Subdomain Name

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- Bytes and File Sizes

- Nibble
- Byte
- Kilo
- Mega
- Giga
- Tera
- File Size [Video](#)
- Heuristic- Leaving out details
- Examples of File Sizes
- Lossy Compression
- Lossless Compression

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- Image
- Raster
- RGB
- Pixels
- Resolution
- Photo Filter
- Metadata
- Video about pixels [Video](#)

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- BMP vs JPEG vs GIF vs PNG vs PSD etc...
- WAV vs MP3 vs MOV vs MP4
- Zip Files

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- Big Data
- Trends
- Google Trends
- Assumptions
- Data Visualizations

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- Algorithm

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- Low Level Programming Language
- High Level Programming Language

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- Efficiency
- Turtle Programming
- Define Function
- Call It
- Execute
- Procedure

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- API
- Documentation
- Library
- Parameter
- Stepwise Refinement

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- Functions with parameters- [Video](#)

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- Loops- [Video](#)

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- Moore's Law
- Big Data

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- Data Breaches
- Collecting Data
- Using Data

- Privacy Issues

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- Encryption
- Decryption
- Cipher
- Caesar's Cipher
- Random Substitution
- Cracking Encryption

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- Vigenre Cipher
- Keys and Passwords- [Video](#)
- Computationally Hard

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- Public Key & Private Crypto
- Cybersecurity and Crime- [Video](#)
- Asymmetric Encryptions
- Modulo Operation
- Viruses
- Phishing
- Bot Net
- DDOS

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- UI
 - UI Elements
 - UI Events
- Event driven Program
- Event Handling
 - Event Listener
 - Callback function

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- Debugging

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- Multi-Screen

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- Variable
 - Create
 - Assign
 - Re-Assign
- Expression
- Data Type

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- Variable Scope
 - Global Variable
 - Local Variable

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- String
- Concatenate

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- If Statement
- Conditionals
- Selection

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- Boolean
- Boolean Expression

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- `setProperty()`
- `rgb()`

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- While Loop

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- Models and Simulations

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- List
- Array

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- For Loop

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- Return
- Return Value