Millard West Middle School Capture the Flag

Power Point Guide and Practice Problems

**USE YOUR RESOURCES**

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| --- | --- |
| **Data Types:** | Binary – 0-1  Hex – 0-9 & A-F  Decimal – 0-9  Ascii – 0-127 |
| **Cypher Types(Encryption):** | Caesar  Vigenere  Substitution(Keyed or Unkeyed)  Pad |
| **Identify the Data Type:**  010 123 097 058 013 - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  567483195 - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  0011101101010 - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  FA 9B 87 64 8E D3 - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | **Identify the Cypher:**  Znoy oy g igkygx! - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Gsrh rh z hfyhgrgfrgrlm! - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Dlgc mq k zgqilovc!(Passphrase = key) - \_\_\_\_\_\_\_\_  Rawkwftb(Hint: Caeser Cypher) - \_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Googling:**  Don’t ask google questions!  Right – population of Nebraska  Wrong – How many people live in Nebraska? | **Using Inspect Element:**  Open Google Chrome!  Right-click -> Inspect Element  Look for useful information of different tabs |
| **Web Requests:**  POST – Hidden in Background, cannot be changed  GET – Put in URL, can be modified | **Utilizing GET:**  Gain admin privileges –  www.testsite.com/?admin=FALSE  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **File Formatting:** | **All files can be opened in Notepad:**  Header - Tells what type of file it is  Data - Illegible material that makes up the file  Footer - Lets it know the file is finished |
| **Tips for Success:** | Problems may mislead you.  Use your teammates if you get stuck.  If a problem is taking time, move on and come back.  **GOOGLE!** |