# Rubric – Breaking the Code

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| Grade | AExemplary | BExceeds Requirements | CMeets Requirements | DLess than required | EInadequate |
| 0 and 1 are used in the binary code system | Student identified both 0 and 1 used in the binary code system. |  |  | Student identified either 0 or 1 in the binary code system. | Student identified no numbers in the binary code system. |
| Identifies why computer systems use binary code | Student has a very clear understanding of binary coding used in computer systems. | Student has a good understand of binary coding used in computer systems. | Student has a satisfactory understanding of why binary coding is used in computer systems. | Student is unclear why binary coding is used in computer systems. | Student has an unsatisfactory understanding of why binary coding is used in computer systems. |
| Decode binary codes using the alphabetical coding chart | Student decode binary codes using the alphabetical coding chart with 1-2 or no mistakes. | Student decode binary codes using the alphabetical coding chart with 3-5 mistakes. | Student can decode binary codes using the alphabetical coding chart and words with no more than 6 mistakes. | Student decode binary codes using the alphabetical coding chart but made between 7-14 mistakes. | Student unable to decode binary codes using the alphabetical coding chart with more than 15 mistakes. |
| Wrote a code  | Outstanding, student was able to write a code, demonstrating writing codes in blocks for each word and in the format of each letter is written in binary code underneath each other with no mistakes. | Good, student was able to write a code, demonstrating writing codes in blocks for each word and in the format of each letter is written in binary code underneath each other with 1 – 2 mistakes. | Satisfactory, student was able to write a code, demonstrating writing codes in blocks for each word and in the format of each letter is written in binary code underneath each other with no more than 3 mistakes. | Student was able to write a code, either the codes were not written in blocks to indicate a word or the letters for each binary code were not written under each other indicating the correct procedure for writing a binary code word. | Student was unable to write a code. There was not sequence to the code and words were missed, binary code letters were not written underneath each other indicating a binary word. |
| Decode another students birthday code | Students was able to decoded the message with no mistakes. | Student was able to decode the message with 1 mistake. | Student was able to decode the message with only 2 mistakes. | Student was able to decode the message with only 3-6 mistakes. | Student was unable to decode message or had over 7 mistakes in their answer. |