**12.07 Message Decoder Worksheet**

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| Reassembled Code | |  |  |  |  |  |  | **Blue Segments** | | |  | **Red Segments** | | |
|  |  |  |  |  |  | **1** | **2** | **3** |  | **1** | **2** | **3** |
| Blue | Red | **+** | **1** |  |  |  |  | I | J | V |  | F | N | I |
| I | I |  | H |  |  |  |  | B | T | U |  | T | X | B |
| B | B |  | A |  |  |  |  | Q | B | F |  | T | J | Q |
| Q | Q |  | P |  |  |  |  | Q | Q | S |  | J | U | Q |
| Q | Q |  | P |  |  |  |  | J | S | S |  | T | I | J |
| J | J |  | I |  |  |  |  | O | P | P |  | B | P | O |
| O | O |  | N |  |  |  |  | F | H | S |  | Q | V |  |
| F | F |  | E |  |  |  |  | T | S | T |  | S | U |  |
| T | T |  | S |  |  |  |  | T | B |  |  | P | F |  |
| T | T |  | S |  |  |  |  |  | N |  |  | H | S |  |
| J | J |  | I |  |  |  |  |  | X |  |  | S | S |  |
| T | T |  | S |  |  |  |  |  | J |  |  | B | P |  |
| B | B |  | A |  |  |  |  |  | U |  |  |  | S |  |
| Q | Q |  | P |  |  |  |  |  | I |  |  |  | T |  |
| S | S |  | R |  |  |  |  |  | P |  |  |  |  |  |
| P | P |  | O |  |  |  |  |  |  |  |  |  |  |  |
| H | H |  | G |  |  |  |  |  |  |  |  |  |  |  |
| S | S |  | R |  |  |  |  |  |  |  |  |  |  |  |
| B | B |  | A |  |  |  |  |  |  |  |  |  |  |  |
| N | N |  | M |  |  |  |  |  |  |  |  |  |  |  |
| X | X |  | W |  |  |  |  |  |  |  |  |  |  |  |
| J | J |  | I |  |  |  |  |  |  |  |  |  |  |  |
| U | U |  | T |  |  |  |  |  |  |  |  |  |  |  |
| I | I |  | H |  |  |  |  |  |  |  |  |  |  |  |
| P | P |  | O |  |  |  |  |  |  |  |  |  |  |  |
| V | V |  | U |  |  |  |  |  |  |  |  |  |  |  |
| U | U |  | T |  |  |  |  |  |  |  |  |  |  |  |
| F | F |  | E |  |  |  |  |  |  |  |  |  |  |  |
| S | S |  | R |  |  |  |  |  |  |  |  |  |  |  |
| S | S |  | R |  |  |  |  |  |  |  |  |  |  |  |
| P | P |  | O |  |  |  |  |  |  |  |  |  |  |  |
| S | S |  | R |  |  |  |  |  |  |  |  |  |  |  |
| T | T |  | S |  |  |  |  |  |  |  |  |  |  |  |
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1. This is very similar to decoding a human genome. In human genome decoding, they must match the correct DNA telomeres together otherwise the genetic code would be invalid. This process is similar as, once the code is found, it is as easy as matching each letter with its corresponding pair. This process is simply reduced to 4 possible pairs in human DNA.
2. A benefit is that we can work with talented people all over the world without having to move locations. Companies can be more flexible and serve their customers more efficiently with an online and remote workforce. However, communication can be difficult, especially if people are in different time zones or work at different hours.
3. Google Docs can simplify this a lot as a document can be viewed and edited simultaneously. This removes the need to send the file as both people have access to edit the file. It also removes the risk of someone saving over a file as the edits are done simultaneously.
4. Good communication is the most important skill for online collaboration. I believe I am good at communicating with others especially about important projects.
5. Tasks that are physical in nature like construction benefit very little from online collaboration. Tasks that are creative, like painting, also would not benefit very much from collaboration, unless collaboration was the aim of the art piece. It would reduce the artist to a contributor and not give the artist credit for his/her work.