Name(s)_____ Period _____ Date _____

Submission Guidelines

For this project you will submit to your teacher:

1. **Your diagram** showing the breakdown of your experience. You must have a diagram which is **at least 3 levels** deep and the chosen aspect must have **at least 4 details** broken down at each level.
2. Use the template provided
3. **Your detailed encoding** table showing the binary components of a bottom level of your diagram "tree"
4. **Your written response** about trade-offs in representing information as digital data
5. Submit your detailed encoding and written response in your shared Google Drive folder.
6. Turn in a **printed copy of your rubric.**

Project Rubric

Component	1	2	3	Score
Diagram: Complete	Few aspects of the experience have been accounted for or the diagram is incomplete. At least 2 levels deep and less than 4 details at any level	The experience has been generally broken down but some key elements may have been missed. At least 2 levels deep and at least 4 details at each level.	The experience has been thoroughly broken down into its component parts. At least 3 levels deep and at least 4 details at each level. All critical elements have been accounted for.	
Diagram: Proper Encodings	Many components have been improperly assigned number / ASCII or should have been further subdivided.	Most components are subdivided when necessary and are reasonably assigned ASCII / number.	Components are consistently subdivided when necessary and are reasonably assigned ASCII / number.	
Detailed Encoding: Number of Bits	The encoding frequently uses an unreasonable number of bits to encode each component.	The encoding generally uses a reasonable number of bits to encode each component.	The encoding consistently uses a reasonable number of bits to encode each component.	
Detailed Encoding: Description / Comments	Most components require more explanation of how they will be interpreted or why they are included.	Some components could benefit from further explanation of how they will be interpreted or why they are included.	Nearly all components provide rich explanations of how they are interpreted and why they are included.	
Reflection: Tradeoffs in representing digital data	The response reflects an incomplete, incorrect, or trivial understanding of considerations that go into the digital representation of information.	The response reflects a partial understanding of considerations that go into the digital representation of information. Could benefit from better examples or better explanation of pros and cons.	The response reflects a deep understanding of considerations that go into the digital representation of information. Examples are cited, benefits and drawbacks are mentioned.	
			Total:15	