**I Can Statements and Personal Reflection**

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| **Unit 3 – Microbiology** | **Reflection** |
| I can classify viruses as living or non-living and justify my answer |  |
| I can describe viral structure and the diversity of virus types including retroviruses and enveloped viruses |  |
| I can compare and contrast the lytic and lysogenic cycles |  |
| I can describe human responses to viral infections |  |
| I can explain what vaccines are and how they work |  |
| I can explain terms such as immunity, ~~R-~~~~0~~~~, fomites~~, herd immunity, ~~and patient zero~~ |  |
| I can describe prokaryotic structures and functions |  |
| I can describe bacteria form and arrangement |  |
| I can explain the process and results of Gram staining, and the cell wall structure of Gram+ and Gram- bacteria  |  |
| I can explain 3 modes of bacterial horizontal gene transfer |  |
| I can draw and explain both binary fission and conjugation |  |
| I can describe 4 modes of bacterial nutrition |  |
| I can describe 3 types of bacteria in terms of oxygen use |  |
| I can explain the importance of bacteria in both negative and positive contexts |  |
| I can explain how antibiotic resistance occurs, how it relates to evolution, and steps that can be taken to prevent it |  |