**ARC Week at Glance**

**Topic: Domains/ Genetic Mutations Course: Biology Grade: 10-12 Dates: 8/19-8/23**

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|  | **Learning Target****(I am learning about…)** | **Criteria for Success****(I can…)** | **Activation/ Instruction** |  **Collaboration/ Guided Practice** | **Independent Learning/ Assessment** |
| *(Include at least one/two formatives\*in any part of the lesson as needed)* |
| **Monday** | I am learning about the domains of life and early life | I can describe Eubacteria, Archae, and Eukaryotes | Archae, Bacteria and Protists Crash Course Video  | Domains practice Group Work  | Domain Characteristics and Kingdoms Chart  |
| **Tuesday** | I am learning about the characteristics of Eubacteria | I can describe the characteristics of EubacteriaI can describe binary fission  | Characteristics of Eubacteria/ Prokaryote Diagram | Binary Fission Activity  | **TOTD:** Are the offspring of binary fission similar, different or identical? Explain using evidence from the lab and reasoning.  |
| **Wednesday** | I am learning about the risks of antibiotic resistance | I can explain why antibiotic resistance is dangerous | [Hunting the Nightmare Case Study:](https://www.pbs.org/wgbh/frontline/documentary/hunting-the-nightmare-bacteria/) (First 13 minutes) How did the little girl get sick handout | **Antibiotic Resistance Lab**  | **TOTD: Why is antibiotic resistance dangerous for all of us? Explain using evidence from the video.**  |
| **Thursday** | I am learning how mutations lead to genetic variation | I can describe how changes in DNA results in changes in physical traits  | Genetics Blooket | [Outcome of Mutation Virtual Lab](https://learn.genetics.utah.edu/content/basics/outcomes/)   | **TOTD: Are mutations harmful or helpful or both? Use evidence to support your statement.**  |
| **Friday** | I am learning the relationship between cancer and genetic mutations | I can describe how cancer develops  | What do you know about cancer? Share if you feel comfortable | **Cell Cycle and Cancer Virtual Lab**  | TOTD: How would you explain cancer to a younger sibling or cousin?  |

\*\*Please highlight your literacy tasks, your major grades and your minor grades. I suggest color coding.