**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 Eubacteria  I 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.