

P.S. 035 Manhattan High School

Course Code: SLS44

Syllabus for: Living Environment 4

Teacher Name: Ms. Rojas

Year and Term: 2022/2

Learning Standards: S2- Life Science Concepts

S4- Scientific Connections and Understanding

S5- Scientific Thinking

S6- Scientific Tools and Technologies

S7- Scientific Communication

S8- Scientific Investigation

Course Description: Living Environment is a Regents course that connects the topic of cells, body systems and genetics to classification, evolution, ecosystems, cycles of matter and environmental.

Calendar or Unit Map:

Reproduction-10

- System
- STDs
- Meiosis
- Embryology
- How to protect themselves from STDs
- Why reproduction is different in different organisms

Biology- Genetics-11

- DNA
- RNA
- Mutations
- Meiosis
- Punnett Square
- Pedigree chart
- Karyotyping
- Gel electrophoresis
- Properties Gene

Biology- Classification-12

- Kingdoms
- 9 processes
- Autotrophic, Heterotrophic
- Dichotomy key

Biology- Evolution-13

- Moneran – Human
- Survival of the fittest
- Selective breeding
- Biotic and abiotic factors of evolution
- Mutations-evolution

Biology- Ecosystems-14

- Biomes
- Food webs
- Energy pyramid
- Community Relationships

Cycles of Matter- 2.5

- CO₂ + O₂
- N₃
- H₂O
- Guard Cells
- Biochemistry/relationships

Biology- Pollution-15

- Pollution
- Clean energy
- Renewable resources
- Our effect on the environment

Course Materials: Notebook, 200 index cards, USB flash drive, home computer

Grading Policy:

- 1- 65%- Labs /PT Exam / Google Slides
- 2- 30%- Exams
- 3- 35%- Website work