

P.S. 035 Manhattan High School

Course Code: SLS43

Syllabus for: Living Environment 3

Teacher Name: Ms. Rojas

Year and Term: 2021/1

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.

Calendar or Unit Map:

Scientific Method-1

- Variables
- Control group
- Create a hypothesis
- Create an experiment
- Data collection
- Data analysis

The 5 Sciences

- Chemistry
- Physics
- Earth Science
- Math
- Biology

Biology-6

- 9 processes
- ATP
- DNA
- Biotic – Abiotic
- Homeostasis

Biology- cell-7

- Organelles
- Cell theory
- Mitosis
- Prokaryote, Eukaryote
- Cell theory

Enzymes & pH -2.3

- Substrates/Product
- Inhibitors/Activators
- Anabolic/Catabolic
- pH
- Enzymes effects on the body
- pH effects on the body and on enzymes

Nutrition -16

- Type of foods
- Food pyramid
- Food plate
- ATP
- Foods effect on the body

Biology- Systems-8

- All the systems of the human body
- Relationships of the systems
- Connection to the 9 processes

Immune - 9

- WBC /Antibodies
- Vaccinations
- How does our body protect us?

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

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

Grading Policy:

- 1-30%- Labs
- 2-30%- Exams
- 3-40%- Classwork/Homework