

# P.S. 035 Manhattan High School

**Course Code:** SLS44

**Syllabus for:** Living Environment 4

**Teacher Name:** Ms. Rojas

**Year and Term:** 2019/2

**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**

- CO<sub>2</sub> + O<sub>2</sub>
- N<sub>3</sub>
- H<sub>2</sub>O
- 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:**

- 1-30%- Labs
- 2-10%- Exams
- 3-10%- Voc. Exams
- 4-15%- Wit packets
- 5-10%- Voc. Cards
- 6-10%- Movies
- 7-10%- Projects
- 8-05%- H.W.
- OR
- 1-30%- Labs
- 2-60%- Exams
- 3-10%- Voc. Exams