



DENVER INNER CITY PARISH

Empowering People. Building Community. Saving Lives.

La Academia Biology Standards

I will understand, be able to describe, or complete the following:

ONGOING SCIENCE & TECHNOLOGY

- ☐ The nature of science
- ☐ Observation and science communication
- ☐ Research: data collection and analysis
- ☐ Development of technical skills
- ☐ Scientific citations
- ☐ Fractions, percentages, and statistics as it relates to genetics and public health
- ☐ Application of linear & exponential equations, volume, and area to cell size and population growth
- ☐ Health database systems
- ☐ Molecular technologies

BIOLOGY CONCEPTS

- ☐ The four macro-molecules of life (proteins, carbohydrates, lipids, nucleic acids)
- ☐ Cells (prokaryotic and eukaryotic and the difference between them)
- ☐ Cell structures and functions (including mitosis and meiosis)
- ☐ Respiration and photosynthesis
- ☐ Genetics & Symbiosis
- ☐ DNA structure and functions
- ☐ Protein synthesis and mutations
- ☐ Body systems and functions
- ☐ Dissection methods and anatomical identification
- ☐ Natural selection and its role in evolution
- ☐ Biodiversity