Course/Subject: **Biology - Regents** Grade Level/Building: **High School** **4/00**

UNIT	SKILLS	TYPE OF ASSESSMENT USED
Unit I Unity and Diversity Among Living Things	• Identify life functions • Place living things in an organized manner • Explain the specific functions of cell organelles • Analyze organic compounds • Structural formula of organic compounds • Hydrolysis/synthesis	• Written lab reports • Tests: - multiple choice - short answers
Unit II Maintenance in Living Things	• Process of photosynthesis • Process of heterotrophic nutrition • Adaptations for nutrition in organisms • Explain the flow of nutrients through organisms • Process of respiration • Flow of gases • Removal of metabolic waste • Regulation - nerve control/endocrine system • Locomotion - advantages/adaptations	• Written lab reports • Tests: - multiple choice - short answers
Unit III Human Physiology	• Trace food through the gastrointestinal tract • Explain what happens at each organ of the GI series to the food • Circulatory system - maintains homeostasis, disorders • The process of gas exchange • Excretory organs and their function, disorders • Nervous system - parts of, function disorders • Role of hormones	• Written lab reports • Tests: - multiple choice - short answers • Computer programs

UNIT	SKILLS	TYPE OF ASSESSMENT USED
Unit IV Reproduction and Development	• Comparison of mitotic division in plants and animals • Explain asexual reproduction • Stages of meiosis • Compare and contrast meiosis and mitosis • Interpret the germ layers • Compare and contrast external and internal development • Male and female reproductive system • Menstrual cycle • Reproduction in flowing plants • Production of a seed	• Written lab reports • Tests: - multiple choice • Computer programs
Unit V Transmission of Traits From Generation to Generation	• Major concepts - dominance/recessive, segregation/recombination • Genetic diagrams - cross between traits • Principles of heredity • Gene linkage and crossing-over • Sex determination • Mutations • Structure of DNA - Double Helix	• Written lab reports • Tests: - multiple choice - short answers
Unit VI Evolution	• Evidence for evolution - theory - Lamark/Darwin - comparative studies • Natural selection • Geographic isolation • Heterotrophic hypothesis	• Written lab reports • Tests: - multiple choice - short answers

UNIT	SKILLS	TYPE OF ASSESSMENT USED
Unit VII Ecology	• Ecosystems - factors (biotic, abiotic) • Nutritional relationships • Energy flow • Material cycles • Pyramid of biomass • Ecological succession of organisms • Biomes of the earth • Humans and the biosphere	• Written lab reports • Tests: - multiple choice