

DEPARTMENT: SCIENCE	COURSE TITLE: SCIENCE 8
GRADE 8	PRE-REQUISITES : SCIENCE 7

UNIT	LENGTH	CONTENT	SKILLS	METHODS OF ASSESSMENT	FRAMEWORK STRAND(S) & STANDARD(S)
Systems	5 weeks	<ul style="list-style-type: none"> • Input and output • Systems in balance • Balance point • Mechanical and biological systems • Robotics 	Students will: <ul style="list-style-type: none"> • Collect and analyze data. • Create data tables. • Graph data. • Write lab reports. • Measure. • Use lab equipment correctly. 	<ul style="list-style-type: none"> • Tests • Quizzes • Homework • Labs • Reports • Writing projects • Presentations 	4.2.6 4.3 4.4.2
Changes in Systems	5 weeks	<ul style="list-style-type: none"> • Mechanical and biological systems • Adaptation • Population • Evolution • Geological time • Simulation programs (e.g. Simcity) 	Students will: <ul style="list-style-type: none"> • Collect and analyze data. • Create data tables. • Graph data. • Write lab reports. • Measure. • Use lab equipment correctly. 	<ul style="list-style-type: none"> • Tests • Quizzes • Homework • Labs • Reports • Writing projects • Presentations 	4.2.6 2.7-2.12 2.17, 18
Properties of Matter	10 weeks	<ul style="list-style-type: none"> • Particle motion theory • Properties of matter • Elements and compounds • Chemical reactions • Conservation of mass • Mass/volume/density • Acids and bases • Physical vs. chemical change 	Students will: <ul style="list-style-type: none"> • Make observations. • Draw conclusions from evidence. • Follow correct lab procedures. • Follow safety procedures. • Use measuring tools. • Create data tables. • Graph data. • Write lab reports. 	<ul style="list-style-type: none"> • Tests • Quizzes • Homework • Labs • Reports • Writing projects • Presentations 	4.1.1 3.1-3.10 3.14-3.16
Motion and Forces	5 weeks	<ul style="list-style-type: none"> • Measuring motion, including velocity and acceleration • Forces • Combining forces • Gravity • Friction 	Students will: <ul style="list-style-type: none"> • Design projects. • Use measuring tools. • Graph motion. • Follow correct lab procedures. • Write lab reports. • Build a propeller car. 	<ul style="list-style-type: none"> • Tests • Quizzes • Homework • Labs • Reports • Writing projects • Presentations 	4.1 4.6.4 4.6.3 3.11-3.12