



☐ ODESSA SCIENCE DEPARTMENT └─ INTEGRATED SCIENCE SYLLABUS

of PAPER & PO Work Energy Machines	, L	RESEARCH		
of PAPER & PO	2 nd QUARTER R	RESEARCH		
	, L	RESEARCH	<u>OJECT</u>	
	STEM F			
	INDEPENDENT STEM RESEARCH			
<u>Q-W3</u>				
Magnetism Charge	Electronics / Tech Apps	,	Electricity / Magnetism	
		Chpt. 20, 21		
-			Forces / Tides / Moor	
Geometry Mass vs Weight	Newton's Laws Free Body Diagrams			
Force	Moon / Tides	Chpts. 12, 25.2		
EXAM 2: Week 1Q-W6		es	Linear Motion / Waves / Momentum	
Conservation Waves	Free Fall			
Collisions	Velocity, Speed	Chpt. 11, 17, 18	8	
<u>Q-W3</u>		l	Introduction / Engineering / Matter	
Engineering Concepts			[
Sci Method	Contracts & Safety	Chpt. 1, 2, 3		
<u>UNIT</u>	CONCEPTS	SUGGESTED <u>READING</u>		
	ession & Frank (<u>UNIT</u> Sci Method Engineering Concepts <u>D-W3</u> Collisions Conservation Waves Momentum <u>D-W6</u> Force Geometry Mass vs Weight <u>D-W9 (end of 1st)</u> Electricity Magnetism Charge	ession & Frank (Prentice Hall) <u>UNIT</u> <u>CONCEPTS</u> Sci Method Contracts & Safety Engineering Accuracy vs Precision Concepts Matter Phys / Chem P Q-W3 Collisions Velocity, Speed Conservation Acceleration Waves Free Fall Momentum Electromagnetic Wave Q-W6 Force Moon / Tides Geometry Newton's Laws Mass vs Weight Free Body Diagrams Q-W9 (end of 1st Quarter) Electricity ElectroMagnetic Magnetism Electronics / Tech Charge Apps	UNITCONCEPTSSUGGESTED READINGSci MethodContracts & SafetyChpt. 1, 2, 3Engineering ConceptsAccuracy vs Precision Matter Phys / Chem Properties D-W3 CollisionsVelocity, SpeedChpt. 11, 17, 12Conservation WavesAcceleration Free Fall MomentumChpt. 11, 17, 12ForceMoon / TidesChpts. 12, 25.2Geometry Mass vs WeightNewton's Laws Free Body DiagramsChpt. 12, 25.2 D-W9 (end of 1st Quarter) ElectroMagnetic ChptsChpt. 20, 21Magnetism ChargeElectronics / Tech AppsChpts2.9, 21	





ODESSA SCIENCE DEPARTMENT INTEGRATED SCIENCE SYLLABUS

<u>WEEK</u>	<u>UNIT</u>	<u>CONCEPTS</u>	SUGGESTED <u>READING</u>		
19-21	Periodic Table	Classification History, Atomic	Chpts. 4, 5		
Theory, Isotopes EXAM 7: Week 3Q-W3		Periodic Ta		ble/Atomic Structure	
22-24	Bonding	Ionic, Covalent, Metallic Scientific Method, Electronegativity,	Chpt. 6		
EXAM 8: Week 3Q	<u>-W6</u>			Bonding	g / Naming / Formula
25-27	Reactions	Reaction Types, Balancing, Classifying	Chpt. 7		
EXAM 9: Week 3Q	-W9 (end of 3 ^r				Reactions
28-30	The Mole	Molarity, Avogadro, Formula Mass, Percent Composition, Molecular	Resources From Mr. Wehr		
EXAM 11: Week 4(<u>)-W3</u>	Mass, Empirical Formula			Mole
31-33	Stoichiometry	Stoichiometric Reactions, Balancing,	Chpt. 7.5, Resources From Mr. Wehr		
EXAM 10: Week 40	Percent Yield 4Q-W6				Stoichiometry
34-36	Acid/Base Salts	Properties, Reactions Acids/Bases, pH, Litmus Paper	Chpt. 8		
EXAM 12: Week 4(<u> </u>			[Acid / Base / Salts

2nd SEMESTER FINAL: Week 4Q-W9

Integrated Science: Grade 9, 1 Semester Credit

Physical science studies matter and energy. Students study physical laws and chemical processes through student-driven research-based laboratory experiences. Physical science surveys the laws of motion, properties of matter, energy, light, and electricity at the high school level. Chemical science studies and investigates the structure and properties of matter. Add a dash of Earth Science now and again and VIOLA...Integrated Science!