

Course Title: Organic Chemistry Honors Content Area: Science Grade Level: 11-12

Grade Level:11/12			Content Area: Science				
Unit or Topic	Standards	Length of Time	Key Content	Assessment Tools	Scaffolding Strategies (Interventions, Special Education)	Resources & Materials	
Lewis Diagrams and structures	3.1.12 B 3.1.12 C 3.2.12 B 3.4.12 A	2 weeks	Electron structures, bonding, electronegativity	Quizzes, graded homework, labs, test		Introduction to Organic Chemistry 3rd edition. (Brown), Kahn	
	3.4.12 B		electronegativity			Academy online.	
Alkanes, alkynes, alkynes	3.1.12 B 3.1.12 C 3.2.12 B 3.4.12 A 3.4.12 B	3 weeks	Structures, naming, and models	Quizzes, graded homework, labs, test		Introduction to Organic Chemistry 3rd edition. (Brown), Kahn Academy online.	
isomers	3.1.12 B 3.1.12 C 3.2.12 B 3.4.12 A 3.4.12 B	2 weeks	constitutional, stereo isomers, cis and trans isomers, and enantiomers	Quizzes, graded homework, labs, test		Introduction to Organic Chemistry 3rd edition. (Brown), Kahn Academy online.	
Functional Groups	3.1.12 B 3.1.12 C 3.2.12 B 3.4.12 A 3.4.12 B	2 weeks	Aldehydes, ketones, alcohols, esters, ethers, carboxylic acids, amines, and amides.	Quizzes, graded homework, labs, test		Introduction to Organic Chemistry, 3rd edition. (Brown), Kahn Academy online.	

Basic organic	3.1.12 B	4 weeks	SN1, SN2,	Quizzes, graded	Introduction to
reaction	3.1.12 C		substitution,	homework, labs,	Organic Chemistry,
mechanisms	3.2.12 B		addition,	test	3rd edition.
	3.4.12 A		oxidation, and		(Brown), Kahn
	3.4.12 B		reduction		Academy online.
			reactions		
Cyclic	3.1.12 B	2 weeks	Cycloalkanes,	Quizzes, graded	Introduction to
Compounds	3.1.12 C		cyclo alkenes,	homework, labs,	Organic Chemistry,
	3.2.12 B		benzene, and	test	3rd edition.
	3.4.12 A		phenols		(Brown), Kahn
	3.4.12 B				Academy online.
Alcohols,	3.1.12 B	3 weeks	Primary,	Quizzes, graded	Introduction to
ethers, and	3.1.12 C		secondary, and	homework, labs,	Organic Chemistry,
thiols	3.2.12 B		tertiary alcohols,	test	3rd edition.
	3.4.12 A		ethers, and thiols		(Brown), Kahn
	3.4.12 B				Academy online.
amines	3.1.12 B	3 weeks	Amines and	Quizzes, graded	Introduction to
	3.1.12 C		amides, drugs	homework, labs,	Organic Chemistry,
	3.2.12 B		and reactions	test	3rd edition.
	3.4.12 A				(Brown), Kahn
	3.4.12 B				Academy online.
Aldehydes and	3.1.12 B	3 weeks	Grignard	Quizzes, graded	Introduction to
ketones	3.1.12 C		reaction,	homework, labs,	Organic Chemistry,
	3.2.12 B		oxidation-	test	3rd edition.
	3.4.12 A		reduction		(Brown), Kahn
	3.4.12 B				Academy online.
Carboxylic	3.1.12 B	3 weeks	Nomenclature,	Quizzes, graded	Introduction to
acids	3.1.12 C		reactions,	homework, labs,	Organic Chemistry,
	3.2.12 B		reactions	test	3rd edition.
	3.4.12 A				(Brown), Kahn
	3.4.12 B				Academy online.
Carbohydrates,	3.1.12 B	3 weeks	Structures,	Quizzes, graded	Introduction to
amino acids	3.1.12 C		nomenclatures,	homework, labs,	Organic Chemistry,
	3.2.12 B		reactions, and	test	3rd edition.

and proteins,	3.4.12 A	medicines and		(Brown), Kahn
and lipids	3.4.12 B	drugs.		Academy online.