



# Lighthouse Science Common 4-Year Sequences

Tables below show some of the common 4-year sequences of science courses taken at LHS. Of course, you may customize your schedule as needed. **NOTE:** some science courses depend on which MATH courses you are taking – without enough math, you will likely struggle to be successful.

Path #1: I am unsure about attending college but need a basic science path to advanced diploma			
Earth Science or Biology	Biology or Earth Science	Environmental Science	Conceptual Physics or Chemistry
9 <sup>th</sup> grader in Algebra I			Algebra II needed before Chemistry
Path #2: I am planning to go to less competitive college and/or I am not planning to be a STEM major			
Earth Science or Biology	Biology or Earth Science	Chemistry	Conceptual Physics or Environmental Science or AP Environmental Science
9 <sup>th</sup> grader in Geometry		Algebra II needed before Chemistry	
Path #3: I am planning to go to a competitive college and/or I am considering a STEM major			
Research Earth Science or Research Biology	Research Biology or Research Earth Science	Research Chemistry ★	AP Chemistry or AP Biology or Honors/DE Physics or AP Environmental Science or Independent Sci Research DE or Geospatial Science DE ★
9 <sup>th</sup> grader in Geometry or Algebra II		Algebra II needed before Chemistry	
Path #4: I am planning to go to a highly competitive college and major in biological/medical sciences			
Research Biology	Research Chemistry	AP Chemistry or AP Biology or Honors/DE Physics or AP Environmental Science ★	AP Biology or Honors/DE Physics or AP Environmental Science or Independent Sci Research DE or Geospatial Science DE ★
9 <sup>th</sup> grader in Algebra II or higher	Algebra II needed before Chemistry	Trig needed before DE Physics	
Path #5: I am planning to go to a highly competitive college and major in physics/engineering			
Research Biology or Research Earth Science	Research Chemistry	Honors/DE Physics ★	AP Physics ★
9 <sup>th</sup> grader in Algebra II or higher	Algebra II needed before Chemistry	Trig needed before DE Physics	

★ Students planning to attend a competitive college and considering a STEM major may want to take 2 science courses simultaneously during 11<sup>th</sup> and/or 12<sup>th</sup> grade. We **strongly** recommend/do not recommend the following combinations, based on years of student success data:

✓ RECOMMENDED – manageable difficulty/workload ✓	
Research Chemistry AP Chemistry AP Biology Honors/DE Physics AP Physics	& AP Environmental Science Independent Sci Research DE Geospatial Science DE

✗ NOT RECOMMENDED – extreme difficulty/workload ✗	
Research Chemistry AP Chemistry AP Biology Honors/DE Physics AP Physics	& Research Chemistry AP Chemistry AP Biology Honors/DE Physics AP Physics