



## Science Placement Guidelines in relation to Math

### Freshman Science Course Placement

Most freshmen at Mt. Carmel take Biology of the Living Earth 1-2. Freshmen enrolled in Integrated Math 2 or higher may opt to take the 3 trimester sequence of Fundamentals of Chemistry and Chemistry in the Earth System 1-2 instead.

**Note for all grade levels: A grade of A or B in Integrated Math 2a-2b is strongly recommended before Chemistry.**

9 <sup>th</sup> Grade Math	Take =	9 <sup>th</sup> grade Science	10 <sup>th</sup> grade Science options	11 <sup>th</sup> grade Science options	12 <sup>th</sup> grade Science options
Integrated Math 1a-1b or Integrated Math 1a-1b-2a	=	Biology of the Living Earth	<ul style="list-style-type: none"> <li>• Geoscience</li> <li>• Fundamentals of Chemistry/ Chemistry in the Earth System 1-2</li> </ul>	<ul style="list-style-type: none"> <li>• Fundamentals of Chemistry/ Chemistry in the Earth System 1-2</li> <li>• Physics of the Universe 1-2</li> <li>• Human Biology</li> <li>• Biomedical Technology 1-2</li> <li>• AP Environmental Science</li> </ul>	<ul style="list-style-type: none"> <li>• Fundamentals of Chem/ Chem in the Earth System 1-2</li> <li>• Physics of the Universe 1-2</li> <li>• Human Biology</li> <li>• Biomedical Technology 1-2</li> <li>• AP Biology</li> <li>• AP Environmental Science</li> <li>• AP Physics 1A-B*</li> </ul>
Integrated 2a or higher with a grade of A or B	=	Fundamentals of Chemistry/ Chemistry in the Earth System 1-2	AP Biology	<ul style="list-style-type: none"> <li>• AP Physics 1A-1B-CMech1*</li> <li>• Biomedical Technology 1-2</li> <li>• AP Environmental Science</li> </ul>	<ul style="list-style-type: none"> <li>• Human Biology</li> <li>• Biomedical Technology 1-2</li> <li>• AP Biology</li> <li>• AP Chemistry</li> <li>• AP Physics C Mech 2-CE &amp; M 1-2*</li> <li>• AP Environmental Science</li> </ul>

### \*AP Physics Trimester Sequence of Courses

The following 2-year sequence allows students to learn 3 years of AP Physics content and take all 3 AP examinations. Physics 1-2 is NOT a prerequisite to take the AP level courses.

Sequence	Fall – Trimester 1	Winter - Trimester 2	Spring – Trimester 3
AP Physics 1A-B (does not require Calculus)	AP Physics 1A 1216	AP Physics 1B 1217	AP Physics C – Mech (1) 1262
AP Physics CCC- Mechanics and Electricity & Magnetism (Calculus- based)	AP Physics C-Mech (2) 1263	AP Physics C E&M (1) 1264	AP Physics C E&M (2) 1265