

Westfield Science AP and HN Expectations

Westfield High School - Advanced Placement Courses

<i>Area of Study</i>	<i>Reading to prepare for each class</i>	<i># of hours to study/prepare for each class</i>	<i>Tests, Essays, Papers</i>	<i>Major Projects</i>	<i>Summer Assignments</i>	<i>Comments</i>
AP Biology	<p>2 - 5 textbook chapters per unit, depending on the content</p> <p>Chapters vary in length and are essential to success in class.</p> <p>2 - 3 units per quarter</p>	1-2 hours per day (approximately 5+ hours per week for maximum success)	<p>1-2 quizzes and 1 test per unit (tests include multiple-choice, grid-in, free-response). 1-3 labs per unit.</p> <p>2 - 3 units per quarter</p>	<p>2 major formal lab reports. 1 during 1st quarter, 1 during 2nd quarter. (Other labs have informal analysis questions).</p>	Self-study covering 1 AP Bio unit (material provided online, no books required, due mid-Sept).	<p>Course includes a variety of activities and skills, such as labs, essay-writing, critical and abstract thinking, complex problem-solving.</p> <p>Emphasis on analysis of new scenarios (need to know vocabulary and concepts, but also apply them)</p>
AP Chemistry	10-20 pages	1-2 hours	<p>1-2 quizzes every 2 weeks</p> <p>1 test every 4 to 6 weeks</p>	<p>final project at end of year after AP exam</p> <p>Maintain a Lab notebook throughout the year</p>	10 hour review of chemistry I	<p>retain as much knowledge from your chemistry I course</p> <p>keep your chemistry I notebook</p>

				lab reports every 2 weeks 2-4 hours additional		this is a challenging/college level course High grades in lower level chemistry do not necessarily carry over to AP studies
AP Environmental Science	2-4 textbook chapters per unit 2-3 units per quarter	1-2 hours per block day, including reading, notes and test practice	One test per unit, to include MC questions and essays; practice quizzes for each unit; timed writings in class	One project per quarter, outside of class time usually needed Post-exam project is up to 50% of 4th quarter grade	Short reading, map assignment, and some math problems, due by end of first week	You get out what you put in to this course. While nothing is inherently too hard to understand, there is a decent volume of work, and it picks up speed as the year goes on. Reading is essential to a passing National Exam score. Be ready to analyze your own habits as we learn to live more sustainably
AP Physics 1	5 - 10 pages reading each class	30 - 60 minutes A Day to A Day (or B to B)	2 - 3 tests per quarter Ongoing lab notebook	Externally moderated project	No summer assignment	Must at least be in Precalc while taking this course

AP Physics 2	5 - 10 pages reading each class	30 - 60 minutes A Day to A Day (or B to B)	2 - 3 tests per quarter Ongoing lab notebook	No projects	No summer assignment	Must at least have taken Physics as a prerequisite, but AP Physics 1 is strongly recommended
AP Physics C - Mechanics	15 pages per week from a college level textbook	1 hour from A Day to A Day (or B to B)	3 tests each quarter determine 50% of the grade 40% Labs 10% HW	Lab notebook, ongoing	No summer assignment	Must at least be in AP Calc AB, but BC is strongly recommended Previous Physics experience strongly recommended

Westfield High School - Honors Courses

<i>Area of Study</i>	<i>Reading to prepare for each class</i>	<i># of hours to study/prepare for each class</i>	<i>Tests, Essays, Papers</i>	<i>Major Projects</i>	<i>Summer Assignments</i>	<i>Comments</i>
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HN Biology 1	0	30-45 minutes. 90 minutes per week devoted to science fair project.	1-2 quizzes, 1 unit test multiple choice format, 1 free response question per unit.	Mandatory Independent Research Project (science fair project)	No summer assignment	Strong reading comprehension, organizational and study skills needed. Not strictly memorization. Investigate at a deeper level, emphasis on analysis, inference and abstraction at an accelerated pace.
HN Chemistry	0	.25 hrs	2-4 quizzes and 2-3 Unit Tests per quarter	Science Project including reference reviews, research plan, experimentation & presentation of results	No summer assignment	Algebra 2 corequisite
HN Geosystems	0	90 minutes per week devoted to science fair project.	2-3 Unit Tests per quarter	Mandatory Science Project	No summer assignment	Chemistry and Biology corequisite
HN Physics 1	5 - 10 pages reading each class (same as AP Physics 1)	30 - 60 minutes A Day to A Day (or B to B) (same as AP Physics 1)	2 - 3 tests per quarter Ongoing lab notebook	Science Fair Project	No summer assignment	Must at least be in Precalc while taking this course

			(same as AP Physics 1)			
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