

2021-2022 Physics Year-At-A-Glance

Unit Title	Student Expectations
1st Nine Weeks: August 23 – October 15 Assessment: 1st NW Testing Window: ~ October 11 - October 15	
Unit 1: Background/ Scientific Method/Process , Definition of Science, Theory, Lab Protocol	2A, 2B, 2C, 2D, 2H
Unit 2: One-Dimensional Motion , manipulate formulas, use motion detectors	3E, 4A, 4B
Unit 3: Two-Dimensional Motion , graphical vector addition, projectile and circular motion, KE, PEm ME, conservation of energy	4C, 3E, 6B, 6C, 6D
2nd Nine Weeks: October 18 – December 17 Assessment- Sem 1 Final Exam Window: ~ December 13- December 17	
Unit 4: Forces. graphical vector addition , projectile and circular forces, inertia, acceleration, Free Body diagrams, gravitational and electrical force	4D, 5B, 5C
Unit 5:Work and energy. work-energy theorem, KE,PE, ME, conservation of energy	6A, 6B, 6C, 6D
Unit 6:Momentum , conservation of momentum	6C, 6D
3rd Nine Weeks: January 4 – March 11 Assessment- 3rd NW Testing Window: ~ March 7 - March 11	
Unit 7: Torque, Circular Motion, Universal Law of Gravitation	6B, 6D, 4C, 4D, 6C
Unit 8: Heat/ Thermodynamics	6E
Unit 9: Waves. frequency, wavelength, transverse, longitudinal, EMS	7A, 7B, 7C, 7D
Unit 10: Sound , media, frequency, wavelength, transverse, longitudinal	7A, 7B, 7C, 7D
4th Nine Weeks: March 21 – May 26 Assessment: Sem 2 Final Exam Testing Window: ~ May 19- May 26 (Seniors test early)	
Unit 11:Light ,media, frequency, wavelength, transverse, longitudinal, plane mirror, refraction through a thin convex lens	7A, 7B, 7C, 7D, 7E
Unit 12: Magnetism & Electrostatics	5D
Unit 13: Electricity	5A, 5C, 5D, 5E, 5F
Unit 14: Nuclear	8A, 8B, 8C,89D

Process standards will be embedded into instruction on a daily basis

Dates are flexible within nine-weeks as long as the covered content is learned prior to 9-wks exams.

[Click here to access state standards for Physics.](#)

2021-2022 Pre-AP Physics Year-At-A-Glance

Unit Title	Student Expectations
1st Nine Weeks: August 23 – October 15	
Assessment - 1st 9Wks Testing Window: ~October 11-15	
Unit 1: Background/Scientific Method	2A 2B 2C 2D 2H
Unit 2: Vectors	3F, 4E
Unit 3: Two-Dimensional Motion/Projectiles	4C, 4D, 3F, 4F, 6B, 6C, 6D
Unit 4: Forces	4C, 4D, 4E, 5B, 5C
Unit 4: Forces, con't	4C, 4D, 4E, 5B, 5C
Unit 5: Work and Energy	6A, 6B, 6C, 6D
Unit 6: Momentum	6C, 6D
Unit 7: Rotational Motion	6B, 6D, 4C, 4D, 6C
Unit 8: Heat/Thermo	6E, 6F, 6G
Unit 9: Waves	7A, 7B, 7C, 7D, 7F
Unit 10: Sound	7A, 7B, 7C, 7D, 7F
Unit 11: Light	7A, 7B, 7C, 7D, 7E, 7F
Unit 12: Electricity	5A, 5C, 5D, 5E, 5F, 5G
Unit 13: Magnetism	5D, 5G
Unit 14: Nuclear	8A, 8B, 8C, 8D

Process standards will be embedded into instruction on a daily basis

** Dates are flexible within nine-weeks as long as the covered content is learned prior to 9-wks exams.

***PAP courses may require additional projects, assignments, etc. (pending district guidelines for this unique upcoming school year) in order to achieve the depth and complexity of the Pre-AP Curriculum.

9-wks Test Windows are embedded within other unit dates (i.e. – 9-Weeks test windows overlap with the above unit dates)

any additional notes:

[Click here to access state standards for Physics](#)