



CURRICULUM MAP

PHYSICS 11TH GRADE

WEEK	STANDARDS/ BENCHMARKS/ OBJECTIVES	TOPICS (Lesson Make-up)	MATERIALS/ RESOURCES/ TECHNOLOGY	PROJECTS/ ACTIVITIES/ SUPPLEMENTS	ASSESSMENT
1	Basic explanation of Physics, the search for understanding; introduction to physics concepts and terms; the scientific method	Introduction to Physics	A+ online lesson; practice test and mastery test; AGS book A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook; lectures and demonstrations AGS Teacher resource library (CD ROM)	80% minimum on A+ Practice test & Mastery Test
2	Review of mathematical principles that apply to physics; review of algebra and trigonometry	The Language of Physics	A+ online lesson; practice test and mastery test; AGS book A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook; lectures and demonstrations AGS Teacher resource library (CD ROM)	80% minimum on A+ Practice test & Mastery Test
3	Understand the difference between Scalar and vector quantities; know the formula for velocity	Motion in a Straight Line	A+ online lesson; practice test and mastery test; AGS book A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook; lectures and demonstrations AGS Teacher resource library (CD ROM)	
4	Learn the formulas for acceleration	Acceleration	A+ online lesson; practice test and mastery test; AGS book A+ auditory option DVD/audio options; Varied learning style	AGS workbook; lectures and demonstrations AGS Teacher resource library (CD ROM)	80% minimum on A+ Practice test & Mastery Test



CURRICULUM MAP
PHYSICS 11TH GRADE

			delivery of assignments		
5	Understand effect of gravity on acceleration, be able to calculate speed and acceleration	Acceleration from Gravity	A+ online lesson; practice test and mastery test; AGS book A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook; lectures and demonstrations AGS Teacher resource library (CD ROM)	
6	Review Gravity and acceleration	Review 1	A+ online lesson; practice test and mastery test; AGS book A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook; lectures and demonstrations AGS Teacher resource library (CD ROM)	80% minimum on A+ Practice test & Mastery Test
7	OGT PREP	OGT PREP	Study Island; A+ online lessons; practice tests from ODE website	AGS workbook; lectures and demonstrations AGS Teacher resource library (CD ROM)	Not graded
8	Know what the four forces are in nature	Forces	A+ online lesson; practice test and mastery test; AGS book A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook; lectures and demonstrations AGS Teacher resource library (CD ROM)	80% minimum on A+ Practice test & Mastery Test
9	To think of Inertia as concept related to mass or as a quantity	Explain the movement of objects by applying Newton's	A+ online lesson; practice test and mastery test; AGS book	AGS workbook; lectures and demonstrations	80% minimum on A+ Practice test & Mastery Test



CURRICULUM MAP
PHYSICS 11TH GRADE

	of matter; Understand Centripetal force and acceleraton	first law of motion	A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS Teacher resource library (CD ROM)	
10	Know the difference between mass and weight and properly use the terms when describing motion and matter	Explain the movement of objects by applying Newton's second law of motion	A+ online lesson; practice test and mastery test; AGS book A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook; lectures and demonstrations AGS Teacher resource library (CD ROM)	
11	Understand Action – reaction pairs such as thrust and lift - friction and motion etc.	Explain the movement of objects by applying Newton's third law of motion	A+ online lesson; practice test and mastery test; AGS book A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook; lectures and demonstrations AGS Teacher resource library (CD ROM)	
12	Use Vector addition to find the resultant mathematically	Vectors	A+ online lesson; practice test and mastery test; AGS book A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook; lectures and demonstrations AGS Teacher resource library (CD ROM)	80% minimum on A+ Practice test & Mastery Test
13	Learn the difference between straight line and two-dimensional motion; factors that affect motion	Motion in Two Dimensions	A+ online lesson; practice test and mastery test; AGS book A+ auditory option DVD/audio options; Varied learning style	AGS workbook; lectures and demonstrations AGS Teacher resource library (CD ROM)	80% minimum on A+ Practice test & Mastery Test



CURRICULUM MAP
PHYSICS 11TH GRADE

			delivery of assignments		
14	Understand the horizontal and vertical components of projectile motion	Projectile Motion	A+ online lesson; practice test and mastery test; AGS book A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook; lectures and demonstrations AGS Teacher resource library (CD ROM)	80% minimum on A+ Practice test & Mastery Test
15	Use Kepler's laws to describe planetary motion; understand the law of universal gravitation	Universal Gravitation	A+ online lesson; practice test and mastery test; AGS book A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook; lectures and demonstrations AGS Teacher resource library (CD ROM)	80% minimum on A+ Practice test & Mastery Test
16	Know Impulse and the change in momentum; Understand the conservation of momentum	Momentum	A+ online lesson; practice test and mastery test; AGS book A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook; lectures and demonstrations AGS Teacher resource library (CD ROM)	80% minimum on A+ Practice test & Mastery Test
17	Review of motion, forces, and momentum	Review 2	A+ online lesson; practice test and mastery test; AGS book A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook; lectures and demonstrations AGS Teacher resource library (CD ROM)	80% minimum on A+ Practice test & Mastery Test



CURRICULUM MAP
PHYSICS 11TH GRADE

18	Learn the definition of work; power; know how to calculate work	Work	A+ online lesson; practice test and mastery test; AGS book A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook; lectures and demonstrations AGS Teacher resource library (CD ROM)	80% minimum on experiment and report
19	Understand how the use of simple machines aides in the performance of work; describe and compute mechanical advantage	Simple Machines	A+ online lesson; practice test and mastery test; AGS book A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook; lectures and demonstrations AGS Teacher resource library (CD ROM)	80% minimum on A+ Practice test & Mastery Test
20	Know the meaning of potential energy and kinetic energy; and explain the relationship between	Energy	A+ online lesson; practice test and mastery test; AGS book A+ auditory option DVD/audio options; Varied	AGS workbook; lectures and demonstrations AGS Teacher resource library (CD ROM)	80% minimum on A+ Practice test & Mastery Test



CURRICULUM MAP
PHYSICS 11TH GRADE

	potential energy and kinetic energy, understand the concept of conservation of energy		learning style delivery of assignments		
21	Learn the kinetic theory; know what temperature measures and how and when to use the different temperature scales; learn the first law of thermodynamics; understand what specific heat is	Thermal Energy	A+ online lesson; practice test and mastery test; AGS book A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook; lectures and demonstrations AGS Teacher resource library (CD ROM)	80% minimum on A+ Practice test & Mastery Test
22	Define Pressure; use Boyle's law; Charles' law; combined gas law; the ideal gas law to find unknown quantities	Gas Laws	A+ online lesson; practice test and mastery test; AGS book A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook; lectures and demonstrations AGS Teacher resource library (CD ROM)	80% minimum on A+ Practice test & Mastery Test



CURRICULUM MAP
PHYSICS 11TH GRADE

23	Review of energy and machines	Review 3	A+ online lesson; practice test and mastery test; AGS book A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook; lectures and demonstrations AGS Teacher resource library (CD ROM)	80% minimum on A+ Practice test & Mastery Test
24	Know the different types of waves and wave characteristics, measure wave energy	Waves and Wave Energy	A+ online lesson; practice test and mastery test; AGS book A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook; lectures and demonstrations AGS Teacher resource library (CD ROM)	80% minimum on A+ Practice test & Mastery Test
25	Know the definition of sound; gain an appreciation of hearing and music	Sound	A+ online lesson; practice test and mastery test; AGS book A+ auditory option DVD/audio options; Varied learning style	AGS workbook; lectures and demonstrations AGS Teacher resource library (CD ROM)	80% minimum on A+ Practice test & Mastery Test



CURRICULUM MAP
PHYSICS 11TH GRADE

			delivery of assignments		
26	Understand the nature of light as well as Reflection and refraction; Learn Snell's law; see how the pinhole camera works; draw ray diagrams for mirrors and lens	Light	A+ online lesson; practice test and mastery test; AGS book A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook; lectures and demonstrations AGS Teacher resource library (CD ROM)	80% minimum on A+ Practice test & Mastery Test
27	Review of energy	Review 4	A+ online lesson; practice test and mastery test; AGS book A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook; lectures and demonstrations AGS Teacher resource library (CD ROM)	80% minimum on A+ Practice test & Mastery Test
28	OGT PREP	OGT PREP	Study Island A+ online lesson; practice tests from ODE website	AGS workbook; lectures and demonstrations AGS Teacher resource library (CD ROM)	Not Graded
	Explain the	Electricity	A+ online	AGS workbook;	80% minimum



CURRICULUM MAP
PHYSICS 11TH GRADE

29	atom; static electricity; the magnet; the meaning of current; the unit of charge		lesson; practice test and mastery test; AGS book A+ auditory option DVD/audio options; Varied learning style delivery of assignments	lectures and demonstrations AGS Teacher resource library (CD ROM)	on A+ Practice test & Mastery Test
30	Follow the flow of electrons; learn the units for electric current and power; use Ohm's law to find current, voltage, and resistance	Series Circuits	A+ online lesson; practice test and mastery test; AGS book A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook; lectures and demonstrations AGS Teacher resource library (CD ROM)	80% minimum on A+ Practice test & Mastery Test
31	Learn the definition of parallel circuits and differences in circuits	Parallel Circuits	A+ online lesson; practice test and mastery test; AGS book A+ auditory option DVD/audio options; Varied learning style delivery of	AGS workbook; lectures and demonstrations AGS Teacher resource library (CD ROM)	80% minimum on A+ Practice test & Mastery Test



CURRICULUM MAP
PHYSICS 11TH GRADE

			assignments		
32	Identification of combined electrical circuits and how they work	Combined Circuits	A+ online lesson; practice test and mastery test; AGS book A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook; lectures and demonstrations AGS Teacher resource library (CD ROM)	80% minimum on A+ Practice test & Mastery Test
33	Describe how electricity is generated and how it is transported from point of generation to point of use	Transmission	A+ online lesson; practice test and mastery test; AGS book A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook; lectures and demonstrations AGS Teacher resource library (CD ROM)	80% minimum on A+ Practice test & Mastery Test
34	Review of astronomy	Astronomy	A+ online lesson; practice test and mastery test; AGS book A+ auditory option DVD/audio options; Varied	AGS workbook; lectures and demonstrations AGS Teacher resource library (CD ROM)	80% minimum on A+ Practice test & Mastery Test



CURRICULUM MAP
PHYSICS 11TH GRADE

			learning style delivery of assignments		
35	Review of electricity and circuits Review of entire course	Review 5 Review for FINAL Exam	A+ online lesson; practice test and mastery test; AGS book A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook; lectures and demonstrations AGS Teacher resource library (CD ROM)	80% minimum on A+ Practice test & Mastery Test
36	Comprehensive review of course content	Comprehensive Exam	A+ online lesson; practice test and mastery test; AGS book A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook; lectures and demonstrations AGS Teacher resource library (CD ROM)	60% minimum on A+ Practice test & Mastery Test