Information for Course Syllabus

Name of Course: AP Physics 1

Grade Level: 10-12

School: ORHS

Major Assignments: None

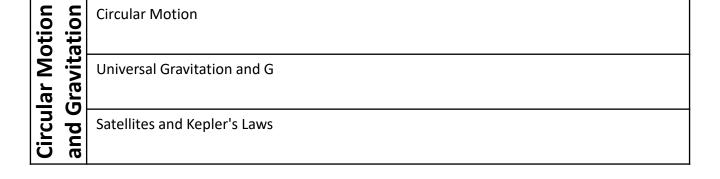
Field Trips: UT Engineers Day, October

How can parents access instructional materials? Canvas

Term 1

tics	1D Kinematics: Speed and Velocity
mat	1D Kinematics: Acceleration
Kinematics	2D Kinematics: Introduction to Vectors
2D	2D Kinematics: Analytical Vector Addition & Resolution
and	2D Kinematics: Horizontally Launched Projectiles
1D	2D Kinematics: Projectiles Launched at an Angle

	Changes in Motion
ω.	Newton's 1st Law
mic	Newton's 2nd and 3rd Laws
Dynamics	Weight and the Normal Force
	Friction and Drag
	Interacting Objects, Ropes and Pulleys



Term 1

Work and Energy

Work	
Mechanical Energy	
The Work Energy Theorem	
Elastic and Thermal Energy	
Conservation of Energy	
Power	

Term 2

	Impulse and Momentum
and	The Impulse Momentum Theorem
	Conservation of Momentum
mpulse Momen	Collisions
	2D Collisions

monic n	Simple Harmonic Motion and Springs
Harmo otion	Pendula and Calculating SHM
ple H Mot	Energy in SHM
Simple Mo	Damped and Driven Oscillations

Rotational Kinematics and Rotational Energy Torque Center of Gravity Rotational Dynamics and Inertia Newton's 2nd Law for Rotation Rolling Motion

Term 2

	nd	Wave Properties
ical	Sou	Sound Energy and Intensity
Mechanica	s and	Wave Interactions
Σ	Wave	Sound Phenomena and Music