

000000Kinematics Learning Target Tracker

Short Term Targets	Practice / notes	Assessments	Score	Goal	Reflection
0.1 I can use metric units and convert between different systems of units.					
0.2 I can identify a quantity as a scalar or a vector					
<i>0.3 I can maipulate vectors by resolving into components and calculating resultant vectors.</i>					

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Short Term Targets	Practice / notes	Assessments	Score	Goal	Reflection
1.1 I can interpret the meaning of a value of distance, displacement, speed, velocity, and acceleration.					
1.2 I can calculate the distance, displacement, speed, velocity, acceleration and time in one dimension.					

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1.3 I can construct and interpret position vs. time, velocity vs. time and acceleration vs. time graphs.					
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Short Term Targets	Practice / notes	Assessments	Score	Goal	Reflection
0.2 I can identify a quantity as a scalar or a vector					
0.3 I can maipulate vectors by resolving into components and calculating resultant vectors.					
2.1 I can construct free body diagrams.					

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Short Term Targets	Practice / notes	Assessments	Score	Goal	Reflection
2.2 I can explain Newton's 3 laws of motion and solve problems through their applications.					
2.3 I can calculate net force, mass and acceleration using Newton's second law.					

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Short Term Targets	Practice / notes	Assessments	Score	Goal	Reflection
4.1 I can calculate current, voltage, charge, and power in a circuit					
4.2 I can use ohm's law, the junction rule, and the loop rule to solve a series, parallel or combination circuit.					

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Short Term Targets	Practice / notes	Assessments	Score	Goal	Reflection
3.3 I can manipulate vectors by resolving into components and calculating resultant vectors					
5.4 I can make calculations about gravity using Newton's Universal Law of Gravitation					
6.1 I can analyze the velocity and acceleration of a projectile at different points on its trajectory.					
6.2 I can calculate the velocity, displacement and time of a projectile.					
6.3 I can identify a centripetal force.					
6.4 I can calculate the magnitude and direction of the velocity, acceleration and force for an object in uniform circular motion.					

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Short Term Targets	Practice / notes	Assessments	Score	Goal	Reflection
5.1 I can explain and calculate different types of mechanical energy.					
5.2 I can apply the concept of conservation of energy to solve problems.					
5.3 I can calculate the amount of work done on an object.					
5.4 I can calculate power.					
Short Term Targets	Practice / notes	Assessments	Score	Goal	Reflection

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<p>6.1 I can analyze the momentum of an object.</p>					
<p>6.2 I can analyze the impulse of an object.</p>					
<p>6.3 I can interpret force vs. time graphs.</p>					
<p>6.4 I can apply conservation of momentum to analyze a collision or an explosion.</p>					

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Lab Title	1.1 I can identify the independent, dependent and control variables in an experiment	1.2 I can create a hypothesis using supporting evidence	1.5 I can design and conduct replicable research procedures that control for confounding variables.	2.1 I can organize data into a data table
#1				
#2				
#3				
#4				

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#5				
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#11				
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2.3 I can identify and describe possible sources of error.	2.4: I can evaluate whether the hypothesis was supported or contradicted .	2.6 I can create graphs tha accurately display data	2.7 I can create a line of best fit of scientific data and use the equation to extrapolate information.	2.8 I can describe patterns in data, including the relationship between variables.	2.9 I can calculate percent error in a lab.	Goal for Next Lab: 1) Which LT will you focus on improving? 2) What will you do differently?

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1.1 I can estimate limits using tables of data.					
1.2 I can find limits graphically.					
1.3 I can calculate limits using properties of limits and substitution.					
1.4 I can calculate limits at infinity					
1.5 I can determine if a function is continuous and justify my answer using the formal definition of continuity.					
1.6 I can describe and apply the Intermediate Value Theorem.					

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Short Term Targets	Practice / notes	Assessments	Score	Goal	Reflection
2.1 I can explain and calculate instantaneous and average rates of change.					
2.1 I can find tangent lines, normal lines, and slopes of curves at a point.					
2.3 I can describe the concept of a derivative as a limit graphically, numerically and analytically.					
2.4 I can describe and explain the difference between differentiability and continuity.					
2.5 I can use the power rule to calculate derivatives					
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<p>2.6 I can use the product and quotient rules to calculate derivatives.</p>					
<p>2.7 I can evaluate second and higher order derivatives.</p>					
<p>2.8 I can use the chain rule to find derivatives.</p>					
<p>2.9 I can find the derivatives of trigonometric, logarithmic and exponential functions.</p>					
<p>2.10 I can find the derivatives of inverse functions.</p>					

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Short Term Targets	Practice / notes	Assessments	Score	Goal	Reflection
4.1 I can use Riemann Sums to approximate definite integrals of functions.					
4.2 I can calculate antiderivatives.					
4.3 I can calculate Definite integrals.					
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<p>4.4 I can apply the properties of Definite Integrals.</p>					
<p>4.5 I can calculate the average value of a function.</p>					
<p>4.6 I can apply the Mean Value Theorem for definite integrals.</p>					
<p>4.7 I can use substitution to calculate definite and indefinite integrals.</p>					

LT Learning Target	ST Learning Target	Grade
Investigation - I can design and conduct investigations.		
	1: I can create a hypothesis using supporting evidence.	
	2: I can identify the independent, dependent and control variables in an experiment.	
	3: I can design and conduct replicable research procedures that control for confounding variables.	
Data - I can display, analyze and interpret data.		
	1: I can organize data into a data table.	
	2: I can identify and describe possible sources of error.	
	3: I can evaluate whether the hypothesis was supported on contradicted using evidence.	
	4: I can create graphs that accurately display data.	
	5: I can calculate percent error in a lab.	
	6: I can create a line of best fit of scientific data and use the equation to extrapolate information.	
	7: I can describe patterns in data, including the relationship between variables.	
PHY 0: I can use a variety of mathematical tools to make scientific calculations.		
	1: I can use metric units and convert data into SI units.	
	2: I can identify a given quantity as a vector or a scalar and explain the difference between the two quantities.	
	3: I can manipulate vectors by using the graphing method and trigonometry.	

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PHY 1: I can analyze the motion of an object using words, diagrams, graphs, and equations.		
	1.1 I can identify and interpret the meaning of a value of displacement, speed, velocity or acceleration.	
	1.2 I can calculate distance, displacement, speed, velocity, acceleration and time in one dimension.	
	1.3 I can construct, analyze and interpret position-time, velocity-time, and acceleration-time graphs of an object's motion.	
	1.4 I can calculate displacement, speed, velocity, acceleration and time in two dimensions	
PHY 2: I can apply Newton's laws of motion to predict the behavior of an object.		
	2.1 I can construct free body diagrams and use them to calculate net force.	
	2.2 I can explain Newton's three laws of motion and solve problems through their applications.	
	2.3 I can use Newton's 2 nd Law to calculate net force, mass and acceleration.	
PHY 3: I can analyze the circular motion of an object using words, diagrams, graphs and equations.		
	3.1 I can identify a centripetal force.	
	3.2 I can calculate the magnitude and direction of force, mass, velocity, radius and acceleration for an object in uniform circular motion.	
	3.3 I can use Newton's Universal Law of Gravitation to make a calculation.	

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