

Enduring Understanding: A net force will change the translational motion of an object. There are force pairs with equal magnitude and opposite directions between any two interacting objects.

Demonstration of Mastery	
I can explain Newton's law in qualitative terms and apply these laws to different physical situations.	
I can, using appropriate relationships derived from Newton's second and third law analysis, determine/calculate unknown forces or accelerations from given known physical characteristics.	
I can derive expressions that relate mass, forces, or angles of inclination for various slipping conditions with friction.	
I can calculate the value of the static frictional force/kinetic frictional force or coefficient of static/kinetic friction in various dynamic situations.	
I can derive an expression for the motion of an object freely falling with a resistive drag force. Lab	
I can use appropriate calculus techniques to determine expressions	

Demonstration of Skills	
I can evaluate a problem and determine the best approach to solving the problem.	
I follow the problem solving guidelines.	
I can evaluate the significance of my final answers (magnitude, sign)	
I support conceptual explanations with appropriate physics.	
I can apply previously learned skills to novel situations.	

