

Physical Science Day 4

Topic	Newton's Laws of Motion
NC Standard	PSc.1.2.3 Explain forces using Newton's three laws of motion.
Target Goals	<ul style="list-style-type: none"><input type="checkbox"/> Explain the property of inertia as related to mass - the motion of an object will remain the same (either at rest or moving at a constant speed in a straight line) in the absence of unbalanced forces; if a change in motion of an object is observed, there must have been a net force on the object.<input type="checkbox"/> Explain balanced and unbalanced forces mathematically and graphically with respect to acceleration to establish the relationship between net force, acceleration, and mass.
Learning activities	<ul style="list-style-type: none"><input type="checkbox"/> Watch Newton's Laws: Crash Course Physics #5 Answer the following questions while watching the video.<ol style="list-style-type: none">1) What is Newton's 1st Law known as?2) What is the definition of Inertia?3) What is the equation for Newton's 2nd law?4) What is the definition of net force?5) What direction is the force of gravity?6) What is the equation for finding the force on an object due to gravity?7) What is the unit used for measuring force?8) What is Newton's 3rd law?9) Why is the reindeer capable of moving the sleigh?
Check for understanding.	<p>Complete the following review activities to check for understanding about...</p> <p>*You will need your Physical Science Reference Table (Periodic Table)</p> <p>Watch video and answer embedded questions: Newton's Third Law</p>