

**Arguing With Evidence:**  
**Using Models In the 6<sup>th</sup> grade Science Classroom**  
**To Investigate Newton's Three Laws of Motion**

Unit Abstract and Synopsis

This physics unit is designed to help middle school students develop an understanding of motion through the use of physical, visual and mathematical models. It aligns with both the Next Generation Science Standards and Common Core Standards for Mathematics and ELA. Throughout the unit, students argue with evidence as they develop a connection between written and graphical displays of motion. In investigating Newton's Laws of Motion, they use six of the key science practices of the Next Generation Science Standards as they ask questions, develop and use models, plan and carry out investigations, analyze and interpret data, use mathematics and computational thinking, and engage in argument from evidence.