

Flight-Testing Newton's Laws			
2009 Science			
Core Curriculum Content Standards			
New Jersey Science			
Grades 9-12			
Activity/Lesson	State	Standards	
Session-10 (1-5)	NJ	SCI.9-12.5.2.12.E.3	Create simple models to demonstrate the benefits of seatbelts using Newton's first law of motion.
Session-10 (1-5)	NJ	SCI.9-12.5.2.12.E.4	Measure and describe the relationship between the force acting on an object and the resulting acceleration.
Session-1 (1-17)	NJ	SCI.9-12.5.2.12.E.3	Create simple models to demonstrate the benefits of seatbelts using Newton's first law of motion.
Session-2 (1-10)	NJ	SCI.9-12.5.2.12.E.3	Create simple models to demonstrate the benefits of seatbelts using Newton's first law of motion.
Session-2 (1-10)	NJ	SCI.9-12.5.2.12.E.4	Measure and describe the relationship between the force acting on an object and the resulting acceleration.
Session-3 (1-6)	NJ	SCI.9-12.5.2.12.E.3	Create simple models to demonstrate the benefits of seatbelts using Newton's first law of motion.
Session-3 (1-6)	NJ	SCI.9-12.5.2.12.E.4	Measure and describe the relationship between the force acting on an object and the resulting acceleration.
Session-5 (1-6)	NJ	SCI.9-12.5.2.12.E.b	Understand that according to physical science principles objects undergo different kinds of motion (translational, rotational, and vibrational).
Session-5 (1-6)	NJ	SCI.9-12.5.2.12.E.2	Compare the translational and rotational motions of a thrown object and potential applications of this understanding.
Session-5 (1-6)	NJ	SCI.9-12.5.2.12.E.3	Create simple models to demonstrate the benefits of seatbelts using Newton's first law of motion.
Session-6 (1-8)	NJ	SCI.9-12.5.2.12.E.3	Create simple models to demonstrate the benefits of seatbelts using Newton's first law of motion.
Session-7 (1-5)	NJ	SCI.9-12.5.2.12.E.3	Create simple models to demonstrate the benefits of seatbelts using Newton's first law of motion.
Session-8 (1-9)	NJ	SCI.9-12.5.2.12.E.1	Compare the calculated and measured speed, average speed, and acceleration of an object in motion, and account for differences that may exist between calculated and measured values.
Session-9 (1-7)	NJ	SCI.9-12.5.2.12.E.3	Create simple models to demonstrate the benefits of seatbelts using Newton's first law of motion.