

Flight-Testing Newton's Laws			
2004 Science			
Performance Standards			
Georgia Science			
Grades 9-12 (Physical Science)			
Activity/Lesson	State	Standards	
Session-10 (1-5)	GA	SCI.9-12.PS.SPS8.a	Calculate velocity and acceleration.
Session-10 (1-5)	GA	SCI.9-12.PS.SPS8.b.1	Apply Newton's three laws to everyday situations by explaining the following (Inertia)
Session-10 (1-5)	GA	SCI.9-12.PS.SPS8.b.2	Apply Newton's three laws to everyday situations by explaining the following (Relationship between force, mass and acceleration)
Session-10 (1-5)	GA	SCI.9-12.PS.SPS8.b.3	Apply Newton's three laws to everyday situations by explaining the following (Equal and opposite forces)
Session-1 (1-17)	GA	SCI.9-12.PS.SPS8.a	Calculate velocity and acceleration.
Session-1 (1-17)	GA	SCI.9-12.PS.SPS8.b.1	Apply Newton's three laws to everyday situations by explaining the following (Inertia)
Session-1 (1-17)	GA	SCI.9-12.PS.SPS8.b.2	Apply Newton's three laws to everyday situations by explaining the following (Relationship between force, mass and acceleration)
Session-1 (1-17)	GA	SCI.9-12.PS.SPS8.b.3	Apply Newton's three laws to everyday situations by explaining the following (Equal and opposite forces)
Session-1 (1-17)	GA	SCI.9-12.PS.SPS8.c	Relate falling objects to gravitational force.
Session-2 (1-10)	GA	SCI.9-12.PS.SPS8.b.1	Apply Newton's three laws to everyday situations by explaining the following (Inertia)
Session-2 (1-10)	GA	SCI.9-12.PS.SPS8.b.2	Apply Newton's three laws to everyday situations by explaining the following (Relationship between force, mass and acceleration)
Session-2 (1-10)	GA	SCI.9-12.PS.SPS8.b.3	Apply Newton's three laws to everyday situations by explaining the following (Equal and opposite forces)
Session-2 (1-10)	GA	SCI.9-12.PS.SPS8.c	Relate falling objects to gravitational force.
Session-3 (1-6)	GA	SCI.9-12.PS.SPS8.a	Calculate velocity and acceleration.
Session-3 (1-6)	GA	SCI.9-12.PS.SPS8.b.1	Apply Newton's three laws to everyday situations by explaining the following (Inertia)

Session-3 (1-6)	GA	SCI.9-12.PS.SPS8.b.2	Apply Newton's three laws to everyday situations by explaining the following (Relationship between force, mass and acceleration)
Session-3 (1-6)	GA	SCI.9-12.PS.SPS8.b.3	Apply Newton's three laws to everyday situations by explaining the following (Equal and opposite forces)
Session-5 (1-6)	GA	SCI.9-12.PS.SPS8.a	Calculate velocity and acceleration.
Session-5 (1-6)	GA	SCI.9-12.PS.SPS8.b.1	Apply Newton's three laws to everyday situations by explaining the following (Inertia)
Session-5 (1-6)	GA	SCI.9-12.PS.SPS8.b.2	Apply Newton's three laws to everyday situations by explaining the following (Relationship between force, mass and acceleration)
Session-5 (1-6)	GA	SCI.9-12.PS.SPS8.b.3	Apply Newton's three laws to everyday situations by explaining the following (Equal and opposite forces)
Session-6 (1-8)	GA	SCI.9-12.PS.SPS8.a	Calculate velocity and acceleration.
Session-6 (1-8)	GA	SCI.9-12.PS.SPS8.b.1	Apply Newton's three laws to everyday situations by explaining the following (Inertia)
Session-6 (1-8)	GA	SCI.9-12.PS.SPS8.b.2	Apply Newton's three laws to everyday situations by explaining the following (Relationship between force, mass and acceleration)
Session-6 (1-8)	GA	SCI.9-12.PS.SPS8.b.3	Apply Newton's three laws to everyday situations by explaining the following (Equal and opposite forces)
Session-7 (1-5)	GA	SCI.9-12.PS.SPS8.a	Calculate velocity and acceleration.
Session-7 (1-5)	GA	SCI.9-12.PS.SPS8.b.1	Apply Newton's three laws to everyday situations by explaining the following (Inertia)
Session-7 (1-5)	GA	SCI.9-12.PS.SPS8.b.2	Apply Newton's three laws to everyday situations by explaining the following (Relationship between force, mass and acceleration)
Session-7 (1-5)	GA	SCI.9-12.PS.SPS8.b.3	Apply Newton's three laws to everyday situations by explaining the following (Equal and opposite forces)
Session-8 (1-9)	GA	SCI.9-12.PS.SPS8.a	Calculate velocity and acceleration.
Session-8 (1-9)	GA	SCI.9-12.PS.SPS8.b.1	Apply Newton's three laws to everyday situations by explaining the following (Inertia)
Session-8 (1-9)	GA	SCI.9-12.PS.SPS8.b.2	Apply Newton's three laws to everyday situations by explaining the following (Relationship between force, mass and acceleration)

Session-8 (1-9)	GA	SCI.9-12.PS.SPS8.b.3	Apply Newton's three laws to everyday situations by explaining the following (Equal and opposite forces)
Session-9 (1-7)	GA	SCI.9-12.PS.SPS8.a	Calculate velocity and acceleration.
Session-9 (1-7)	GA	SCI.9-12.PS.SPS8.b.1	Apply Newton's three laws to everyday situations by explaining the following (Inertia)
Session-9 (1-7)	GA	SCI.9-12.PS.SPS8.b.2	Apply Newton's three laws to everyday situations by explaining the following (Relationship between force, mass and acceleration)
Session-9 (1-7)	GA	SCI.9-12.PS.SPS8.b.3	Apply Newton's three laws to everyday situations by explaining the following (Equal and opposite forces)
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Session-10 (1-5)	GA	SCI.9-12.P.SP1.a	Calculate average velocity, instantaneous velocity, and acceleration in a given frame of reference.
Session-10 (1-5)	GA	SCI.9-12.P.SP1.c	Compare graphically and algebraically the relationships among position, velocity, acceleration, and time.
Session-10 (1-5)	GA	SCI.9-12.P.SP1.d	Measure and calculate the magnitude of frictional forces and Newton's three Laws of Motion.
Session-10 (1-5)	GA	SCI.9-12.P.SP1.e	Measure and calculate the magnitude of gravitational forces.
Session-1 (1-17)	GA	SCI.9-12.P.SP1.a	Calculate average velocity, instantaneous velocity, and acceleration in a given frame of reference.
Session-1 (1-17)	GA	SCI.9-12.P.SP1.c	Compare graphically and algebraically the relationships among position, velocity, acceleration, and time.
Session-1 (1-17)	GA	SCI.9-12.P.SP1.d	Measure and calculate the magnitude of frictional forces and Newton's three Laws of Motion.
Session-1 (1-17)	GA	SCI.9-12.P.SP1.e	Measure and calculate the magnitude of gravitational forces.
Session-2 (1-10)	GA	SCI.9-12.P.SP1.d	Measure and calculate the magnitude of frictional forces and Newton's three Laws of Motion.
Session-2 (1-10)	GA	SCI.9-12.P.SP1.e	Measure and calculate the magnitude of gravitational forces.
Session-3 (1-6)	GA	SCI.9-12.P.SP1.a	Calculate average velocity, instantaneous velocity, and acceleration in a given frame of reference.

Session-3 (1-6)	GA	SCI.9-12.P.SP1.c	Compare graphically and algebraically the relationships among position, velocity, acceleration, and time.
Session-3 (1-6)	GA	SCI.9-12.P.SP1.d	Measure and calculate the magnitude of frictional forces and Newton's three Laws of Motion.
Session-4 (1-11)	GA	SCI.9-12.P.SP1.d	Measure and calculate the magnitude of frictional forces and Newton's three Laws of Motion.
Session-5 (1-6)	GA	SCI.9-12.P.SP1.a	Calculate average velocity, instantaneous velocity, and acceleration in a given frame of reference.
Session-5 (1-6)	GA	SCI.9-12.P.SP1.c	Compare graphically and algebraically the relationships among position, velocity, acceleration, and time.
Session-5 (1-6)	GA	SCI.9-12.P.SP1.d	Measure and calculate the magnitude of frictional forces and Newton's three Laws of Motion.
Session-6 (1-8)	GA	SCI.9-12.P.SP1.a	Calculate average velocity, instantaneous velocity, and acceleration in a given frame of reference.
Session-6 (1-8)	GA	SCI.9-12.P.SP1.c	Compare graphically and algebraically the relationships among position, velocity, acceleration, and time.
Session-6 (1-8)	GA	SCI.9-12.P.SP1.d	Measure and calculate the magnitude of frictional forces and Newton's three Laws of Motion.
Session-7 (1-5)	GA	SCI.9-12.P.SP1.a	Calculate average velocity, instantaneous velocity, and acceleration in a given frame of reference.
Session-7 (1-5)	GA	SCI.9-12.P.SP1.c	Compare graphically and algebraically the relationships among position, velocity, acceleration, and time.
Session-7 (1-5)	GA	SCI.9-12.P.SP1.d	Measure and calculate the magnitude of frictional forces and Newton's three Laws of Motion.
Session-7 (1-5)	GA	SCI.9-12.P.SP1.e	Measure and calculate the magnitude of gravitational forces.
Session-8 (1-9)	GA	SCI.9-12.P.SP1.a	Calculate average velocity, instantaneous velocity, and acceleration in a given frame of reference.
Session-8 (1-9)	GA	SCI.9-12.P.SP1.c	Compare graphically and algebraically the relationships among position, velocity, acceleration, and time.
Session-8 (1-9)	GA	SCI.9-12.P.SP1.d	Measure and calculate the magnitude of frictional forces and Newton's three Laws of Motion.
Session-9 (1-7)	GA	SCI.9-12.P.SP1.a	Calculate average velocity, instantaneous velocity, and acceleration in a given frame of reference.
Session-9 (1-7)	GA	SCI.9-12.P.SP1.c	Compare graphically and algebraically the relationships among position, velocity, acceleration, and time.

Session-9 (1-7)	GA	SCI.9-12.P.SP1.d	Measure and calculate the magnitude of frictional forces and Newton's three Laws of Motion.
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