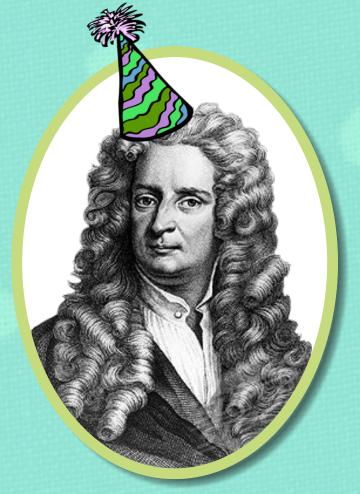
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## Happy Birthday,

# Sir Isaac Newton



January 4, 1643 (N.S.)

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### Newton's Laws of Motion

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Sir Isaac Newton was an English mathematician and physicist who had a profound impact on the field of science. He changed the way we think about the movement of objects when he published his three laws of motion in 1687. They are still in place today. Complete the activities below to observe each of his laws.

Newton's First Law: An object remains at rest or continues to move at a constant velocity unless acted upon by another force.

stopped? Why?	<b>Prediction:</b> What will happen to the motion of the stuffed animal when the moving cart is suddenly stopped? Why?	
Note: Start by using amount of force each	e stuffed animal on the rolling cart. Roll the chair into a stationary object or wall. a small amount of force when pushing the cart. Repeat and gently increase the h time.  n of the stuffed animal impacted when the force used to push the chair increases?	
	To the stated animal impacted when the force used to push the chair increases:	
rton's Second Law: 7	The force a moving object exerts is equal to its mass x acceleration.	
Materials: Golf ball,	, ping pong ball, small tub of all-purpose flour	
Prediction: What wi	ill occur when the golf ball and ping pong ball are dropped into the flour? Why?	
•	e golf ball and ping pong balls into the tub of flour side by side. Observe the force tring the indentations in the flour.	
•	ie to gravity is the same for each object?	
	mpact the force at which each ball hits the flour?	
e equal in magnitud Materials: Straw, ba	nen one object exerts a force on a second object, the second object exerts a e and opposite in direction on the first object.  Illoon, tape, string, two chairs ill cause an inflated balloon to move forward as the air escapes?	
e equal in magnitud Materials: Straw, ba	e and opposite in direction on the first object. Illoon, tape, string, two chairs	
Procedure: Place the mot escape. Tape the	e and opposite in direction on the first object. Illoon, tape, string, two chairs	