Name:	Date:	Period:

Newton's Laws of Motion

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•	${\bf kinematics}$
•	dynamics

- directly proportional
- inversely proportional
- \bullet force
- \bullet free-body diagram
- \bullet inertia
- mass
- weight

Newton's Laws

Newton's First I	Law (NFL)		
Every object as no net force acts or		or	in a straight line as long
Newton's Second	l Law (NSL)		
The acceleration of an	object is		
• directly proporti	onal to	acting on it.	
• inversely propor	tional to its		
• pointing in the _		as the net force	

Newton's Third Law (NTL)

Whenever one object exerts a force on a second object, the second objec exerts an ______ force on the first object in the _____ direction.

Short form: