**The Law of Inertia**

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An object at rest will stay at rest  
unless acted on by a force.

An object in motion will stay in motion unless acted on by a force.

**The Law of Acceleration**

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Force = Mass X Acceleration

Acceleration is produced when

a force acts on an object.

The greater the mass of the object,  
the more force is needed

to create acceleration.

**The Law of Action and Re-Action**

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For every action there is an equal  
and opposite re-action.