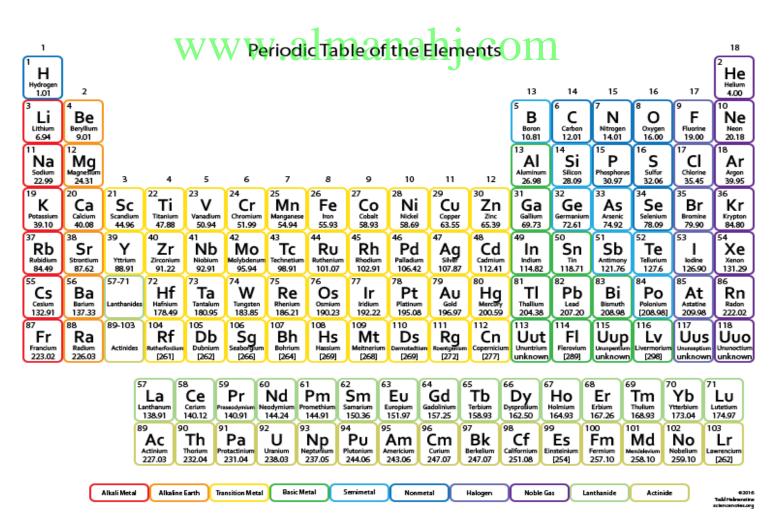
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## ADDITIONAL REFERENCE INFORMATION:



## Newton's Physol Anotion The Law of Inertia With no net force acting upon it, an object at rest tends to stay at rest, and an object in motion tends to stay in motion. Both objects will continue with the same inertia, keeping the same velocity. The ball will not move unless there If a ball were rolling on a frictionless surface, it would is a force to cause it to move. keep moving unless met with an outside force. The Law of Force = Mass x Acceleration (F=ma) The acceleration of an object is dependent upon the net force acting upon the object and the mass of the object. Because the mass of each ball is different, each ball will travel a different distance and at a different speed when it is hit with the same force. he Law of Action & Reaction For every action, there is an equal and opposite reaction. When there is force by one side, there will be opposite and equal force by the other side, causing each side to move in opposite directions.