*Fundamental Forces (Interactions) of Nature*

Kinematics was the study of **how** things are moving. Dynamics is the study of **why**

things move in the first place.

Objects move because a has been applied to them. When a is applied, objects will .

In nature, all forces (interactions) can be classified as one of the following four:

|  |  |  |
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| **Name** | **Strength** | **Description** |
|  | 1038 | Force that keeps protons in the nucleus of the atom |
|  | 1036 | Force that is a result of moving charges and interacting fields |
|  | 1025 | Force responsible for radioactive decay. |
|  | 1 | Attractive force exerted by any mass\* |