

Newton's 3 Laws:

1st - An object at rest or in motion at a constant speed will stay in its state of motion unless acted on by an external force.

2nd - Acceleration of an object is directly proportional to the net force on it and inversely proportional to its mass.

3rd - For every force there is an equal and opposite REACTION force.

① cons. SP. $F = f$ $F_g = N$

② accel. $F - f = F_n$ $F_g = N$

$F_n = ma$

$a = \frac{F_n}{m}$

$F - f = (+)$ (SP. UP East)

$F - f = (-)$ (Slown East)

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