

Motion Notes

I. Frame of reference

There is no absolute reference point; motion and position are always relative.

(Must be compared to some other object)

All motion is compared to a reference point

II. Velocity is speed in a given direction

III. Acceleration change in velocity formula

IV. Force is a push or a pull

Examples: magnetic; mechanical; elastic; gravitational

V. Balanced Forces

When forces are balanced there is no motion

Motion is caused by unbalanced forces

VI. Friction is another force; it only appears in opposition to another force

Acts in the opposite direction to original force

Affected by material, texture, weight, force