

Motions of Object - Force

- Balanced forces - do not cause a change in motion, sources are equal (cancels out)
- Unbalanced forces - always cause a change in motion, sources are not equal (one will prevail)

Motionless

- Balanced forces between the ground pushing up and the gravity that is pulling it down

Beginning to Move

- Unbalanced forces between the force acting on it in which the motion occurs and the friction that is working against it, the acting force is stronger

Speeding Up

- Unbalanced forces acting in the direction in which the motion occurs with reinforced force

Constant Speed

- Balanced forces between the applied force and the force of the friction

Slowing Down

- Unbalanced forces acting against the direction of motion

Stopping

- Unbalanced forces between the force acting on it which the motion occurs and the friction that is working against it, the friction is stronger