PETA KONSEP
CONCEPT MAP

DAYA DAN GERAKAN I
FORCE AND MOTION I

Gerakan Linear
Linear Motion

- Jarak dan Sesaran
  Distance and Displacement
- Laju dan Halaju
  Speed and Velocity
- Pecutan dan Nyahpecutan
  Acceleratio and Deceleration
- Persamaan Gerakan Linear
  Linear Motion Equation
  - $v = u + at$
  - $s = \frac{1}{2}(u + v)t$
  - $s = ut + \frac{1}{2}at^2$
  - $v^2 = u^2 + 2as$

Graf Gerakan Linear
Linear Motion Graph

- Sesaran-Masa
  Displacement-Time
- Halaju-Masa
  Velocity-Time
- Pecutan-Masa
  Acceleration-Time

Gerakan Jatuh Bebas
Free Fall Motion

- Pecutan graviti
  Gravitational acceleration
  $g = 9.81\ \text{m s}^{-2}$

Inersia
Inertia

- Hukum Gerakan Newton Pertama
  Newton's First Law of Motion
- Kesan inersia dalam kehidupan
  Effects of inertia in daily life

Momentum
Momentum

- $p = mv$
- Prinsip Keabadian Momentum
  Principal of Conservation of Momentum
  - Perlanggaran
    Collision
    - Kenyal
      Elastic
    - Tak kenyal
      Inelastic
  - Letupan
    Explosion

Daya
Force

- Hukum Gerakan Newton Kedua
  Newton's Second Law of Motion
  - $F = ma$

Impuls dan Daya Impuls
Impulse and Impulsive Force

- Hukum Gerakan Newton Ketiga
  Newton's Third Law of Motion
  - Impuls
    Impulse
    - $Ft = mv - mu$
  - Daya Impuls
    Impulsive Force
    - $F = \frac{mv - mu}{t}$

Berat
Weight

- $W = mg$

© Penerbitan Pelangi Sdn. Bhd.