

**SPEED:** If constant speed, use  $v = \frac{d}{t}$

$$v = u + at$$

$$v^2 = u^2 + 2as$$

$$s = \frac{v^2 - u^2}{2a}$$

$$s = ut + \frac{1}{2}at^2$$

WHERE:

$u$  = initial speed ( $\text{ms}^{-1}$ )  
 $v$  = final speed ( $\text{ms}^{-1}$ )  
 $s$  = displacement (m)  
 $t$  = time (seconds)  
 $a$  = acceleration ( $\text{ms}^{-2}$ )

**Avg ACCELERATION:**

$$a = \frac{v - u}{t}$$

**KMH<sup>1</sup> TO MS<sup>1</sup>:**  
 x by 3.6

**MS<sup>1</sup> TO KMH<sup>1</sup>:**  
 x by 3.6

**KM TO M:**  
 x by 1000

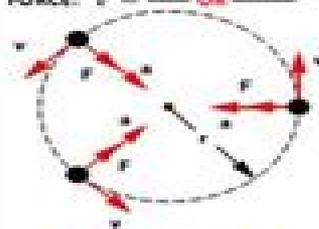
**M TO KM:**  
 x by 1000

**CIRCULAR MOTION**

**SPEED:**  $v = \frac{d}{t}$  OR  $v = \frac{2\pi r}{T}$  OR  $v = \sqrt{ar}$

**ACCELERATION:**  $a = \frac{v^2}{r}$  OR  $\frac{4\pi^2 r}{T^2}$

**FORCE:**  $F = \frac{mv^2}{r}$  OR  $\frac{4\pi^2 mr}{T^2}$



**VERTICAL CIRCULAR MOTION:**

Forces at top: If at minimum speed, no normal force, so feel weightless! If above minimum speed, total force (centripetal force) is made of a downward gravity and a downward normal:

$$\Sigma F = N + mg = \frac{mv^2}{r}$$

Forces at bottom: Centripetal force (downwards) **catches**/upwards) is made of a downwards gravity force and a **BIGGER** upwards normal force. You feel heavier!  $\Sigma F = N - mg = \frac{mv^2}{r}$

Minimum Speed at top:  $v = \sqrt{rg}$

**BALLS ON A STRING**

Radius of path:  $r = 1.5 \times \text{string}$

Circumference of path =  $2\pi r$

Forces are the towards the **catcher**, except tension instead of reaction/normal force.

Tension:  $F = mg/\cos\theta$

Vertical force =  $3\cos\theta$

Speed =  $\sqrt{rg \tan\theta}$

Speed if given length =  $\sqrt{Lg \sin\theta \cos\theta}$

Angle =  $\tan^{-1} \left( \frac{v^2}{rg} \right)$

**INCLINED PLANES**

TO FIND  $N$  (NORMAL FORCE):  $N = mg \cos\theta$

TO FIND  $\Sigma F$  (FORCE DOWN PLANE) (WITH GRAVITY):  $\Sigma F = mg \sin\theta$

TO FIND ACCELERATION WITH NO FRICTION:  
 $a = g \sin\theta$

**BANKED TRACKS**

$$\tan\theta = \frac{v^2}{rg}$$

$$F_{\text{NET}} = \frac{mv^2}{r}$$

$$\text{Force} = \dots = \frac{mv^2}{r}$$

**ENERGY**

**KINETIC ENERGY:**  $EK = \frac{1}{2}mv^2$

**GRAVITATIONAL POTENTIAL ENERGY:**  $GPE = mgh$

**TOTAL MECHANICAL ENERGY = GPE + EK + EPE**

**DETERMINING INELASTIC/ELASTIC COLLISIONS:**

1: Calculate EK initial by adding the EK of object one with object two 2: Calculate EK final by using the combined mass of the system & combined speed (found using  $v = \frac{d}{t}$ ) 3: If the same = elastic, different = inelastic

Average force if momentum is known:  $F = \frac{\Delta p}{\Delta t}$

**SPRINGS**

**HOOKE'S LAW:**  $F = kx$

**SPRING ENERGY:**  $\frac{1}{2}kx^2$

$k$  = gradient of a force vs distance graph.

Example: Show that the spring constant is  $3 \text{ Nm}^{-1}$  Use  $F = kx$  & rearrange to find  $k$ .

Example: Find the extension of the spring at the lowest point of oscillation. Use EPE ( $\frac{1}{2}kx^2$ ) and find  $x$ .

Speed:  $\frac{kv^2}{m}$

Greater  $k$  value = stiffer spring

**WORK**

The product of the applied force & the displacement in the direction of the force.  $W = F \cos\theta \Delta x$  OR  $W = Q \cdot d$



If  $\Sigma F$  isn't constant, can't use  $F = kx$ . Must use area under force-distance graph.

**POWER**

The rate at which work is done.  $P = \frac{\text{work done}}{\text{time taken}} = \frac{W}{t}$

**NEWTON'S LAWS**

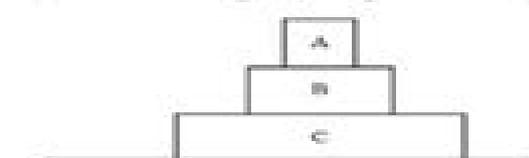
**1<sup>st</sup> LAW:** If an object has 0 net force acting on it, it will either remain at rest or continue **going** with a constant velocity

**2<sup>nd</sup> LAW:**  $F = ma$

**3<sup>rd</sup> LAW:** For every action, there is an equal and opposite reaction

**FORCES**

100g blocks, A (0.050 kg), B (0.10 kg) and C (0.20 kg)



Force of A on B = 0.5N  
 Force of B on C = 1.5N (A and B together)  
 Force of C on ground = 3.5N (A, B and C together)



**GRAVITATION & ORBITS**

**RADIUS:** Height + radius of Earth

**SPEED:**  $v = \frac{2\pi r}{T}$

**TIME PERIOD (seconds):**  $T = \sqrt{\frac{4\pi^2 r^3}{GM}}$  IF GEOSTATIONARY

**SATELLITE TIME = 86400s**

**RADIUS OF ORBIT (meters):**  $r = \sqrt[3]{\left(\frac{GMT^2}{4\pi^2}\right)}$

**STRENGTH OF GRAVITY:**  $g = \frac{GM}{r^2}$

**GRAVITATIONAL FORCE:**  $F = \frac{GMm}{r^2}$

**ACCELERATION:**  $a = \frac{v^2}{r}$  OR  $a = \frac{4\pi^2 r}{T^2}$

**APPARENT WEIGHTLESSNESS**

Apparent weightlessness is achieved when an object falls with an acceleration equal to the gravitational field strength, as no normal reaction force is experienced. For example, astronauts in a satellite in stable orbit will feel weightless as the satellite is in constant free-fall. True weightlessness when  $g=0 \text{ N/kg}$  usually in deep space.

**Eq > g, heavier. Eq < g, lighter.**

**APPARENT WEIGHT (NORMAL FORCE)**

Going up:  $F = m(g-a)$ , Going down:  $F = m(g+a)$

**PROJECTILE MOTION**

**HORIZONTAL COMPONENT:** Usually no acceleration, so use  $a = \frac{v}{t}$

To find initial speed, use  $u_x = v \cos(\theta)$

**VERTICAL COMPONENT:** Has acceleration, so use equation of motion

To find initial speed, use  $u_y = v \sin(\theta)$

$$\tan(\theta) = \frac{\text{vertical speed}}{\text{horizontal speed}}$$

**EXAMPLE:** A batsman hits a cricket ball (from ground level) at a speed of  $30.0 \text{ ms}^{-1}$  and at an angle of  $36.9^\circ$  to the horizontal. An advertising board is placed on the boundary of the cricket ground at a distance  $72.0 \text{ m}$  from the batsman. Air resistance can be ignored. At what height above the ground will the ball strike the advertising board?

Remember that it will take the same time to go up as to come down (if air resistance can be ignored).

Horizontal motion:

$$u_x = v \cos(\theta)$$

$$u_x = 30 \cos(36.9) = 24 \text{ ms}^{-1}$$

$$\text{Using } x = \frac{v}{t}, t = \frac{72}{24} = 3s$$

Vertical motion:

$$u_y = v \sin(\theta)$$

$$u_y = 30 \sin(36.9) = 18 \text{ ms}^{-1}$$

$$\text{Using } x = ut + \frac{1}{2}at^2$$

$$x = 18 \times 3 + \frac{1}{2} \times (-10) \times 3^2$$

$$x = 54 - 45 = 9 \text{m}$$

**EXAMPLE:** A car is discovered at the bottom of a  $72 \text{ m}$  cliff. How fast was the car going if it landed  $22 \text{ m}$  horizontally from the cliff's edge? (Note that the cliff is flat, i.e. the car came off the cliff horizontally).

First find the time it takes for the car to reach the bottom of the cliff.

(Vertical motion)

$$x = ut + \frac{1}{2}at^2$$

$$72 = 0 + \frac{1}{2} \times 10t^2$$

$$72 = 5t^2, t^2 = \frac{72}{5}$$

$$t = 3.79 \text{s}$$

Since time cannot be negative the answer is  $3.79 \text{ s}$ .

FOR SYMMETRICAL FLIGHT:

$$\text{RANGE} = \frac{v^2 \sin 2\theta}{g}$$

# Mastering Physics Chapter 9

**Patrick Vollmar**



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