

# 'PROJECTILE MOTION'

If velocity of particle in one direction is const & Accn in other is in  $\perp$  direction Remain same w.r.t Motion of particle is called projectile & It's path is always parabolic.

Ground - Ground projection

$$T = \frac{2u \sin \theta}{g} = \frac{2uy}{g} \quad \leftarrow \text{time of flight}$$

$$h_{\max} = \frac{u^2 \sin^2 \theta}{2g} = \frac{2y^2}{2g} \quad \leftarrow \text{max height}$$

$$R = (u \cos \theta) T = \frac{2u^2 \sin \theta \cos \theta}{g} = \frac{u^2 \sin 2\theta}{g}$$

$$\vec{v} = (u \cos \theta) \hat{i} + (u \sin \theta - gt) \hat{j}$$

$$\alpha = (u \cos \theta) \hat{i} + (u \sin \theta - \frac{1}{2}gt^2) \hat{j}$$

$$y = x \tan \theta - \frac{gx^2}{2u^2 \cos^2 \theta} = x \tan \theta \left[ 1 - \frac{x}{R} \right]$$

\* velocity at time 't'

Horizontal

$$v_x = u \cos \theta \quad \leftarrow \text{const}$$

Vertical

$$v_y = (u \sin \theta) - gt$$

\* Angle of velo. from X-axis

$$\alpha = \tan^{-1} \left( \frac{v_y}{v_x} \right) = \tan^{-1} \left( \frac{u \sin \theta - gt}{u \cos \theta} \right)$$

\* disp. at time 't'

$$|\vec{r}| = \sqrt{x^2 + y^2}$$

- \* From bottom to top of t
- \* At top position  $\alpha = 0$
- \* From top to bottom of t

\* Horizontal Range

$$R = \frac{u^2 \sin 2\theta}{g}$$

\* x.c at lowest point

$$v = \frac{1}{2} u \sin 2\theta$$

NOTE -> Horizontal component of velocity remain same all points of its path  
\* At top point path of particle is circular & resultant velo. remain same.

Special case for ground to ground projection

CASE-I -> Max Range condition

$$R = \frac{u^2 \sin 2\theta}{g}$$

$$* u = c, g = c \Rightarrow R = f(\theta)$$

$$\left( \frac{d}{d\theta} \sin 2\theta \right) = 1$$

$$\downarrow$$

$$2\theta = 90^\circ, \pi/2$$

$$\theta = 45^\circ / \pi/4$$

$$\# R_{\max} = \frac{u^2}{g} = R_{45^\circ}$$

$$h_{45^\circ} = \frac{u^2 \sin^2 45^\circ}{2g} = \frac{u^2}{4g}$$

#  $\theta = 90^\circ$  (vertical projection)



$$R_{90} = 0$$

$$T_{\max} = \frac{2u}{g} = T_{90}$$

$$h_{90} = \frac{u^2}{2g} = \frac{R_{45}}{2} \Rightarrow R_{45} = 2h_{90}$$

$$h_{45^\circ} = \frac{R_{90}}{4} = \frac{h_{90}}{2}$$

$$R_{\max} \Rightarrow \theta \Rightarrow 45^\circ$$

$$H_{\max} \Rightarrow \theta = 90^\circ$$

$$T_{\max} \Rightarrow \theta = 90^\circ$$

- 1)  $\theta \leq \theta \leq 45^\circ$   
 $\theta \uparrow, T \uparrow, h_{\max} \uparrow, R \uparrow$
- 2)  $45^\circ < \theta < 90^\circ$   
 $\theta \uparrow, T \uparrow, h_{\max} \uparrow, R \uparrow$

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**JR Anderson**



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