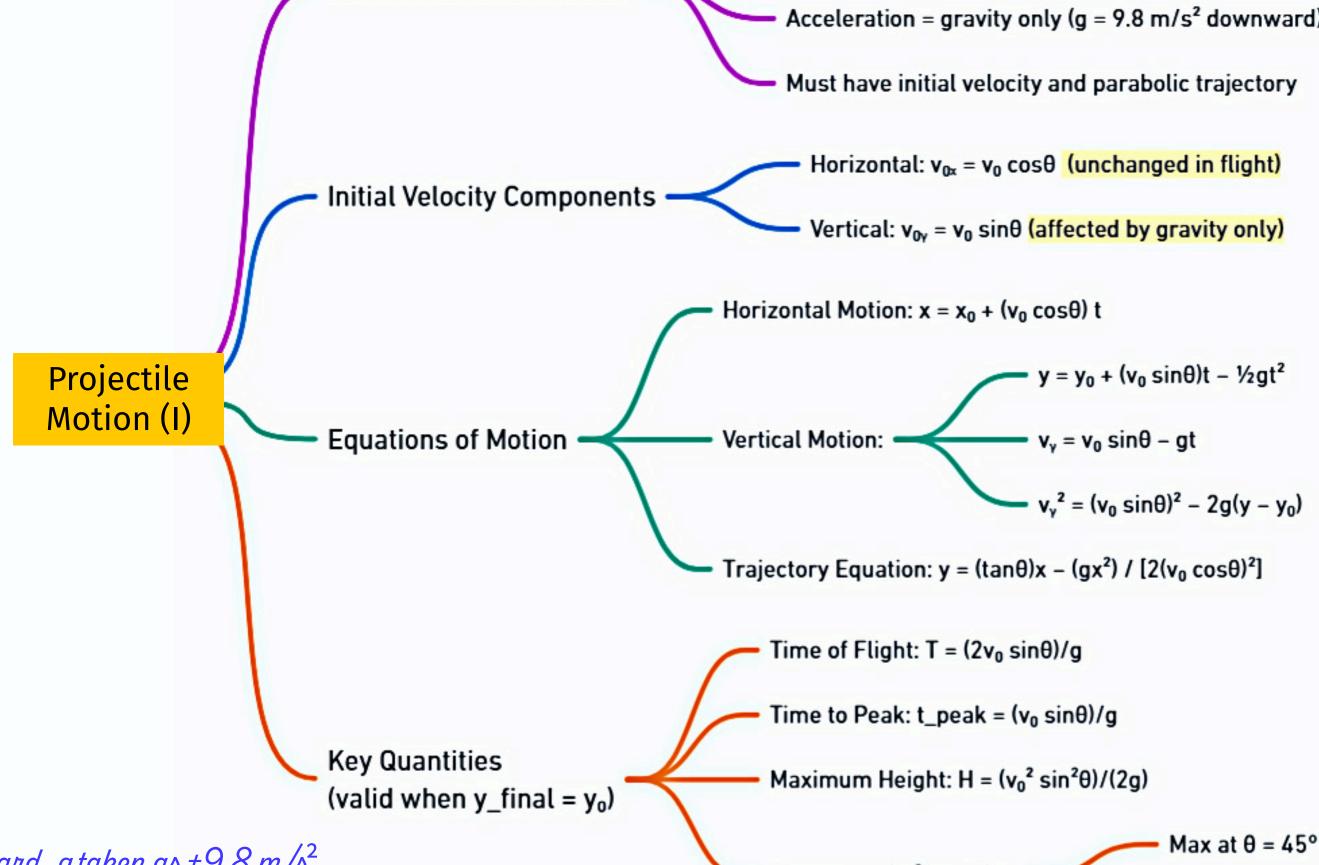


Motion under gravity only (no air resistance)



Two-dimensional: horizontal and vertical

Acceleration = gravity only $(g = 9.8 \text{ m/s}^2 \text{ downward})$



Definition and Conditions

Range: $R = (v_0^2 \sin 2\theta)/g$

Same range for θ and 90°-θ

Sign convention: +y upward, g taken as $+9.8 \text{ m/s}^2$ $downward \Rightarrow appears with a minus sign in vertical formulas$

3. Mind Map: Projectile Motion (2)



