

Physics Unit 3 Cheat Sheet (Motion and Gravity)

Energy (J) and Force (N)

$$E_k = \frac{1}{2}mv^2$$

$$U_g = mgh$$

(only if gravity is constant!)

$$W = Fx \cos \theta$$

$$U_s = \frac{1}{2}kx^2$$

$$F = kx$$

$$F = ma \sin \theta$$

AVOID

Power (W)

$$P = VI$$

$$P = \frac{E}{t}$$

$$P = Fv$$



Momentum (kg m s⁻¹) and Impulse (N s)

$$p = mv$$

$$m_1(v_1 - u_1) = m_2(v_2 - u_2)$$

$$\text{Impulse} = \Delta p = \Sigma F \Delta t = m \Delta v$$

SI Units

Speed: m s⁻¹

Acceleration: m s⁻²

Distance: m

Time: s

Mass: kg

Force: N

Energy: J

Power: W

Current: A

Resistance: Ω

Voltage: V

note that impulse does not depend on acceleration, i.e. a collision will have the same impulse regardless of the presence of padding

Sources of centripetal force:

- Tension, eg:
 - Gravity
 - Along a string
- Sideways frictional forces

Motion (m, m s⁻¹, m s⁻²)

$$v = u + at$$

$$x = \frac{t(u + v)}{2}$$

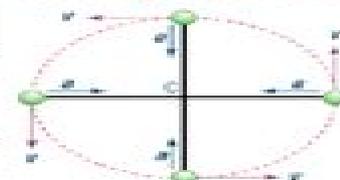
$$x = ut + \frac{1}{2}at^2$$

$$x = vt - \frac{1}{2}at^2$$

$$v^2 = u^2 + 2ax$$

$$V_{avr} = V_B - V_A$$

Centripetal Motion



$$\Sigma F = ma = \frac{mv^2}{r} = \frac{4\pi^2 m r}{T^2}$$

$$v_{centripetal} = \frac{r}{T} = \frac{4\pi^2 r}{T^2}$$

$$\text{Speed} = \frac{\text{Distance}}{\text{Time}} = \frac{2\pi r}{T}$$

Inclined Planes



$$\Sigma F = F_D \sin \theta$$

$$a = g \sin \theta$$

(normal force acts at right angles to the surface)

Newton's Laws

1. Every object continues in a state of rest or constant velocity unless acted on by an unbalanced force.
2. The rate of change of momentum is directly proportional to the magnitude of the net force and is in the direction of the net force.
3. For every action there is an equal and opposite reaction. Action-reaction forces act on **different objects**, e.g., Joe and wall!

Newton's laws assume that space and time are absolute, in contrast with Einstein, who proposed that space and time are relative. The inertial frame of reference refers to objects moving at a constant speed, where Newton's laws work (i.e. the third law wouldn't work if Joe broke the wall down).

Driving force = weight force - normal force

Normal Force



p	pico	10 ⁻¹²
n	nano	10 ⁻⁹
μ	micro	10 ⁻⁶
m	milli	10 ⁻³
c	centi	10 ⁻²
k	kilo	10 ³
M	mega	10 ⁶
G	giga	10 ⁹
t	tonne	10 ³ kg



Graph Interpretation

Graph	Y-axis	Area under	Slope
Extension	Force	U _s	Spr. const.
Time	Velocity	Displ.	Accel.
Time	Accel.	Velocity	-
Time	ΣF	Impulse	-
Displ.	Force	Work	-
Dist	F _g	Work	-
Strain	Stress	E _{ggs} / m ²	YM (E)

ball pushes ground / ground pushes ball

ball pushes ball / ball pushes ball

ground pushes ball

ball pushes ball

ball pushes ball

- Action/Reaction**
- Action/reaction forces:
 - Always exist in pairs
 - Are equal in magnitude
 - Act in opposite directions
 - Act on separate objects

Collisions

- Elastic:**
- Energy conserved
 - Momentum conserved
- Inelastic:**
- Energy lost as heat / sound / deformation
 - Momentum conserved

$$G = 6.67 \times 10^{-11} \text{ N m}^2 \text{ kg}^{-2}$$

Acceleration is independent of mass
Force acts equally on both bodies
Velocity is directed at a tangent to the path

Gravity

g	gravitational field strength (N Kg ⁻²)
a	acceleration (M s ⁻²)
F	Force (N)
v	velocity (M s ⁻¹)
M	Central mass (kg)
m	Orbiting mass (kg)
r	radius or orbit (m)
T	period of orbit (s)

$$a = g = \frac{GM}{r^2} = \frac{4\pi^2 r}{T^2} = \frac{v^2}{r}$$

$$F = \frac{GMm}{r^2} = \frac{4\pi^2 Mr}{T^2} = \frac{mv^2}{r}$$

$$v = \frac{2\pi r}{T} = \sqrt{\frac{GM}{r}}$$

$$\frac{r^3}{T^2} = \frac{GM}{4\pi^2}$$

$$v_1 \sqrt{R_1} = v_2 \sqrt{R_2}$$

This value is a constant for bodies orbiting the same central mass

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Burrows



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web c the nut may need to be slightly tightened or loosened to meet the required end play d rotated counterclockwise against the retainer nut e use a hammer and staking tool to stake the stake washer to the spindle nut in three positions conventional wheel end systems initial adjusting nut torque a final adjusting nut torque c spindle thread

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web to place the nut on the spindle or tighten or loosen the nut on the spindle while the keeper is installed inside the nut doing so may deform the keeper and allow the nut to unthread during operation spindle thread damage could also occur leaving the axle unusable do not bend or manipulate keyway tang in any way

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web step 1 bearing lubrication lubricate the wheel bearing with clean lubricant of the same type used in the axle sump or hub assembly step 2 initial adjusting nut torque tighten the adjusting nut to torque of 200 ft lbs while rotating the wheel step 3 initial back off back the adjusting nut off one full turn step 4

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web install the inner spindle nut and torque to 300 ft lbs do not back off the spindle nut engage the locking device that is part of the spindle nut system if the locking system cannot be engaged when the nut is at 300 ft lbs advance the nut until the locking system can be engaged reference note above

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