Physics Unit 3 Cheat Sheet (Motion and Gravity)

Energy (I) and Force (N)

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

 $U_{\alpha} = m_{\alpha} h$ (only if gravity is constant!)

Inclined Planes

 $W = Fx \cos \theta =$

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

$$F = kx$$
AVOID

 $\Sigma F = F_{\sigma} \sin \theta$

 $\alpha = g \sin \theta$

Extension

There is

Thomas

III between

Charle

Section in Landson

Displ.

Power (W)

$$P = F v$$

Momentum (kg m s-1) and Impulse (N s)

$$p = mv$$

 $m_1(v_1 - u_1) = m_2(v_2 - u_2)$
Impulse = $\Delta p = \Sigma F \Delta t = m \Delta v$

SI Units

Voltages V.

Severally mis-1 Augustier at light, mis." Distance: m-Times N Address of their Figures: N Considered II Province: WI Current: A. Remainst acres on 101

ote that impulse does not depend on

acceleration, le. a collision will buying their suction. repulse regardless of the seniation of padding

- Sources of centricetal force:
- Tension, eg: O Gravity
 - O. Allong a string
- Sideways frictional forces

Newton's Laws

Intermed force acts

ait right imples to

Cocceding a settle

- Every object continues in a state of rest or constant velocity unless acted an 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 apposite reaction. Action-reaction
- forces act on different abjects, e.g., Joe and wall fewton's laws assume that space and time are absolute, in contrast with

linstein, who proposed that space and time are relative. The inertial frame of reference refers to objects moving at a constant speed,

where Niewton's laws work (i.e. the third law wouldn't work if Joe broke the (Jowen).

Motion

 $(m, m s^{-1}, m s^{-2})$

$$\begin{array}{ll} v = u + at \\ x = \frac{t(u + v)}{2} & x = vt - \frac{1}{2}at^2 \\ x = ut + \frac{1}{2}at^2 & v^2 = u^2 + 2ax \\ x = ut + \frac{1}{2}at^2 & V_{SvA} = V_S - V_a \end{array}$$

Centripetal Motion

$$\Sigma F = mo = \frac{mv^2}{r} = \frac{4\pi^2 rm}{T^2}$$

$$a_{contributal} = \frac{v^2}{r} = \frac{4\pi^2 rm}{T^2}$$

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

Driving force - weight force - normal force

Normal Force

Graph interpretation

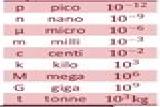
Force

Welldelity

Accel.

Force

Stress



1	tonne	10 kg
G	giga	109
25/41	mega	100
Sec	killo	103
C	centi	1072
000	modelli	10^{-3}
14	micro	10-6
100	mamo	10-9

Spr. const.

Access to

WIND DATE:





Gravity

accelerating

Collisions

married grades based

- Emergy conserved.
- Momentum conserved

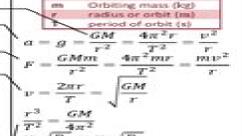
- Energy lost as heat / sound / deformation.
- Momentum conserved

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

William Complete at the Court of

Acceleration is independent of mass

Force acts equally on both bodies Velocity is directed at a tangent to the path



Force (N)

gravitational field

velocity (M s⁻¹).

Central mass (kg)

strength (N Kg-1)

acceleration (M s = 2)

Action/reaction forces:

percentain atoms

- Always exist in pairs.
- Are equal in magnitude.

400

Displ.

Wellocity

tempulate.

Work

Whork

Enter Property

 Act in opposite directions Act on separate objects

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

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