

Physics Unit 7 Cheat Sheet by NoelleEvelyn via cheatography.com/168075/cs/42167/

Work	
Work	Force x Distance
Do all forces do work?	Only parellel forces do work
Force Distance graph	Area under the curve= work
Negative Work	Force is in opposite direction of motion

Basics	
A=	Force on object/ mass of object
Motion	Equations

Efficiency	
Efficiency	Ration of AMA to IMA
Efficiency =	AMA/IMA x 100
AMA < IMA	Wout < Win

Power	
Power	The time rate of work
Joule/ second	watt
746 watt	1 horsepower
Power	Force x velocity

Simple Mad	chines
Simple machines	Any device that varies the effect of an applied force
1	Lever
2	Pulley
3	Wheel + Axel
4	Inclined plane (screw, wedge)
Lever class 1	LFE
Lever class 2	FLE
Lever class 3	LEF
A machine can	Redistribute work
	Change size or direction of input force
	Increase output force by change distance the force is applied

Energy	
Energy	The ability to do work
Kinetic Energy	associated with motion
KE=	1/2mv^2
Units of KE	Joules
KE is directly proportional to V^2	A car at 2x speed has 4x kinetic energy
Change in KE	Work
Mechanical Advantage	

Actual How much a machine Mechanical multiplies a force Advantage AMA >1 Makes you stronger AMA <1 Makes you weaker IMA How a machine would multiply a force if it were 100% efficient	Mechanical Advantage	
AMA <1 Makes you weaker IMA How a machine would multiply a force if it were	Mechanical	
IMA How a machine would multiply a force if it were	AMA >1	Makes you stronger
multiply a force if it were	AMA <1	Makes you weaker
	IMA	multiply a force if it were



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