## Cheatography

Force x Distance
Only parellel forces do vork
Area under the curve= work
Force is in opposite direction of motion

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 Machines			
Simple machines	Any device that varies the effect of an applied force		
1	Lever		
2	Pullev		

by NoelleEvelyn via cheatography.com/168075/cs/42167/

Physics Unit 7 Cheat Sheet

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



Basics

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Not published yet. Last updated 24th January, 2024. Page 1 of 1. Sponsored by **Readable.com** Measure your website readability! https://readable.com

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