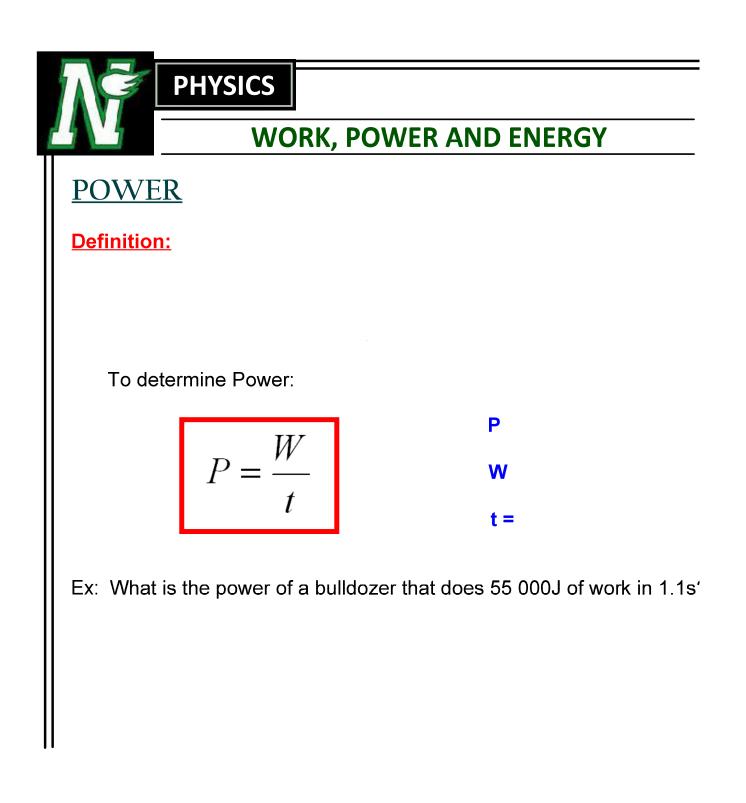
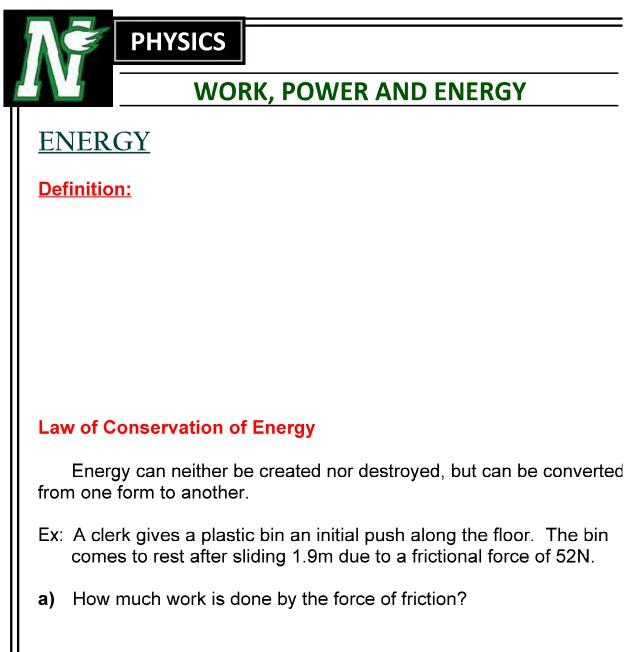
PHYSICS	
WORK, PC	OWER AND ENERGY
<u>WORK</u>	
Definition:	
Work is accomplished when a distance.	force moves an object a certain
Ex:	
Non-Examples:	
Work can be determined by:	
	<b>W</b> =
$W = F \times d$	F =
	d =

Ex: How much work is done by a person pushing a car with a force of 800N for a distance of 200m?





- b) How much energy is transferred to the bin by the clerk?
- c) Energy can neither be created nor destroyed, so, where does the original energy input go?

	PHYSICS	
	WORK, POWER AND ENERGY	
T	POWER LAB	
	How Powerful Are You????	
	Task: To time yourself running up the stairs.	
	Observations: - Your mass (in kg) - The height of the stairs (in m) - The time it took you to run up the stairs (in s)	
	Procedure: - The force you experience as you go up the stairs is gravity	
	F <sub>g</sub> = mg	
	<ul> <li>Calculate the force and then use that force to calculate your work/energy as you run up the stairs</li> </ul>	
	- Use your work to calculate your power <b>- Note:</b> You can covert you power in Watts to Horsepower by dividing it by 746.	
	- How does your power running up the stairs compare to a horse?	

