Name:		_ Period:	Date:	_
Energy				
The ability to do		is energy.		
Energy is also measured i	n			
		is st	tored energy.	
	 Gravitational Poter an It is equal to the object 	ntial Energy is	potential energy tha	t depends on in lifting the
It can be calculate	ed by multiplying the we	ight of the obj	ect by the height the	object is lifted
∘ PE =		_ =		
∘ PE =		((g=10m/s ²)	
Weight = 200 N	m	4m ↓		
			is energy of motion	
 Kinetic energy de an object It is equal t 	pends on the	e object multin	and the	of
KE =			nea by the square o	

- 1. Calculate the potential energy if 15 kg is lifted to a height of 3 meters.
- 2. What is the kinetic energy of a 30 kg mass moving at 5 m/s?
- 3. Calculate the potential energy if 35 N is lifted to a height of 7 meters.
- 4. What is the kinetic energy of a 100kg mass moving at 2 m/s?

Energy cannot be created or destroyed; it may be transformed from one form into another or transferred from one object to another, but the total amount of energy never changes.



Na	ame:	_ Period:	Date:				
Solve the following problems. Show your work. Include a label.							
1.	How much work is done when 50N is lifted	d 2.5 meters?					
2.	Calculate work in the following situation: A	A force of 255N a	icts through a	distance of 6.5 n	neters		
3.	Calculate the potential energy if 35 kg is I	ifted to a height o	of 3 meters.				
4.	What is the kinetic energy of a 90kg mass	s moving at 3 m/s	\$?				
5.	How much work is done when 60N is lifted	d 5 meters?					
6.	Calculate work when a force of 300N acts	s through a distan	nce of 6 meter	s			
7.	Calculate the potential energy if 50 kg is I	ifted to a height o	of 2 meters.				
8.	What is the kinetic energy of a 250kg mas	ss moving at 5 m/	/s?				