C:	UIZIZZ Worksheets	Name				
GCSE Physics - Forces and Motion		Class				
	questions: 20 «sheet time: 40mins					
Instructor name: Luke Gilly		Date				
1.	What is 30 m/s in km/h? (type the nu	umber only without units)				
	Ans					
2.	What is the momentum of a 500g car travelling at 30 m/s? Give your answer in kgm/s without the units. (momentum = mass x velocity)					
	Ans					
3.	What are the units of power?					
	a) Kilowatt-hours	b) Watts				
	c) Amps	d) Joules				
	e) Newtons					
4.	The rate of energy transfer (energy divided by time) is called what? (Begins with a p)					
	Ans					
5.	What is the kinetic energy of a 800g toy moving at 10m/s? Give your answer in Joules, but only type the number - no units.					
	a) 4	b) 4000				
	c) 8	d) 40				
6.	Gravitational potential energy is equal to mass x gravitational field x?					
	Ans					

	What quantity is measured in kilograms?				
	Ans				
8.	What is the GPE of a 60kg man standing on top of a 25cm high stool? State the units with your answer (a single letter is fine).				
	Ans				
9.	What is the correct formula for force?				
	a) Mass x distance	b) Mass x velocity			
	c) Mass x acceleration	d) Mass x weight			
	e) Mass x time				
10.	An object with a mass of 5kg is dropped from a height of 100m. What is the impact velocity with the ground, in metres per second, to one decimal place? Do not type the units.				
	Ans				
	Ans.				
1 1					
11.	If two cars are travelling towards each ot	her, which of these statements is true.			
11.	If two cars are travelling towards each oth a) One has a negative kinetic energy	her, which of these statements is true. b) One has a negative momentum			
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	If two cars are travelling towards each oth a) One has a negative kinetic energy c) One has a negative mass e) One has a negative distance	her, which of these statements is true. b) One has a negative momentum d) One has a negative time			
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11.	If two cars are travelling towards each oth a) One has a negative kinetic energy c) One has a negative mass e) One has a negative distance What is 30 km/h in m/s given to 1 decima a) 9.4 c) 8.3 e) 6.9	<ul> <li>her, which of these statements is true.</li> <li>b) One has a negative momentum</li> <li>d) One has a negative time</li> <li>al place? Do not type the units.</li> <li>b) 9.8</li> <li>d) 108</li> <li>sions of 4cm x 4cm x 4cm with a mass of 16g? Give your</li> </ul>			

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	14.	Which of these is not a force?		
		a) Drag	b) Thrust	
		c) Friction	d) Kinetic	
		e) Tension		
	15.	Which of these are measured in Joules? Tick all that apply (two answers).		
		a) Thrust	b) Kinetic energy	
		c) Weight	d) Power	
		e) Work done		
	16.	Which of these does not affect the time taken for an object to fall from a height?		
		a) acceleration	b) distance	
		c) initial speed	d) final speed	
		e) mass		
	17.	What are the two quantities needed to work out momentum and also kinetic energy?		
		a) time	b) distance	
		c) mass	d) velocity	
		e) acceleration		
18.		Which has the highest density? Do not guess, use your day to day knowledge of each substance.		
		a) aluminium	b) gold	
		c) copper	d) oil	
		e) water		

