Write down the equations for the following quantities.
For each give units and put into an equation triangle

Quantity	Equation	Equation Triangle
Speed		
Weight		
weight		
Hooke's Law		
<b>A I</b>		
Acceleration		

Scalars	Vectors



Write down the equations for the following quantities. For each give units and put into an equation triangle		What is a resultant force?		<ul> <li>In the space below sketch a d-t graph to show an object:</li> <li>Travelling at a steady speed</li> </ul>	
Quantity	Equation	Equation Triangle	_ │		Stationary
Speed					
Waight			For	ces	
weight			Draw force diagrams to sho the following scenarios.	w the resultant force for	In the space below sketch a Force – Extension graph to show Hooke's law:
Hooke's Law			Car Speeding up (ac	ccelerating)	Show where the limit of proportionality is.
Acceleration			_		
			Car going at a stead	ly speed	
Describe the d examples in th	ifferences between e table below.	scalars and vectors. Give	Car slowing down (d	decelerating)	
					Identify the pattern of the graph
Scalars		Vectors			
			State the difference between a contact and non- contact force and give some examples in the table below.		State what the gradient shows on the Force Extension graph. Describe how you would measure energy stored in the spring using the graph
Draw a free bo	dy diagram to resol	ve the vector below			
		ve the vector below.	Contact	Non Contact	

Write down the equations for the following quantities. For each give units and put into an equation triangle				Forces	In	<ul> <li>the space below sketch a d-t graph to show an object:</li> <li>Travelling at a steady speed</li> </ul>
Quantity	Equation	Equation Triangle	What is the conver	sation of momentum?		Stationary
Work Done			-			
SUVAT					·····	
			In a collision show	that the momentum is c	onserved.	In the space below sketch a v-t graph to show an object:
Speed						<ul> <li>Accelerating</li> <li>Travelling at a steady velocity</li> <li>Decelerating</li> </ul>
Acceleration						
Newton's second law			Why is it importa	nt to increase the impact	time in a	
Momentum			collision?			Describe how you would measure the acceleration on a V-T graph
State the factors	that affect braking	For an object that rel	bounds off a surface so	that the change in mom	entum is	
and thinking distance.		double.				Describe how you would measure the distance travelled on a V-T graph
Thinking:				Describe in detail how th laws of motion	ne forces cha	nge for a falling object. Make reference to Newton's

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