Торіс		Details		
1.	Newton's laws	 I can define newton's 3 laws I can give a sporting example and relate to newton's 3 laws 		
2.	Calculations	 I can calculate the following calculations Velocity Momentum Acceleration Force 		
3.	Forces	 I can define force I can explain when internal force and external force is generated I can explain forces 5 effects of motion I know the following vertical forces Weight Reaction I can explain the following horizontal forces Friction (+ factors affecting) Air resistance (+ factors affecting) 		
4.	Free body diagram	 I can label a free body diagram and know where the following points should originate from Direction of motion Friction Weight Air resistance Reaction I can explain the size of the arrow and relationship between forces 		
5.	Centre of mass	 I can define centre of mass I can relate centre of mass to a sporting example 		
6.	Stability	 I can define stability I can explain the following factors affecting stability Mass Height Base of support Line of gravity I can explain how a performer will maximise stability I can explain how a performer will minimise stability 		
7.	Lever System	 I can explain the following levers First Second Third Can explain mechanical advantages and mechanical disadvantages 		