Skills

At the end of the topic I will be able to:

1	Demonstrate that I can carry out practical investigations in a safe and logical manner.
2	Work as part of a team to successfully complete tasks that we are set.
3	Produce a written laboratory report using appropriate headings.
4	Form valid conclusions and evaluate my work using my knowledge of Physics.
5	Use my notes and study guide in order to fully prepare for an assessment.

Average and Instantaneous Speed, Speed – Time Graphs and Acceleration

At the end of the section I can:

1	Describe how to measure average speed.
2	Carry out calculations involving the relationship between distance, time and average speed.
3	Describe how to measure instantaneous speeds.
4	Carry out calculations involving the relationship between distance, time and instantaneous speed.
5	Identify situations when average and instantaneous speeds are different.
6	Use correctly in context the terms speed and acceleration.
7	Describe the motions represented by a speed – time graph.

Forces

At the end of the section I can:

1	State that objects can experience a force without contact from other objects.
2	State that a force can change the speed, shape and direction of an object.
3	State weight is a force and can be described as the Earth's pull on an object.
4	Distinguish between mass and weight.
5	State that weight per unit mass is known as the gravitational field strength.
6	State that the gravitational field strength on Earth is 10 Nkg ⁻¹ .
7	Carry out calculations using the equation W = mg.
8	State that the friction is a force which can oppose the motion of a body.

Forces Continued...

	9	Describe situations where friction is a nuisance and state the methods used to decrease friction.			
	10	Describe situations where friction is needed and state the methods used to increase friction.			
	11	State that equal forces acting in opposite directions are called balanced forces and equivalent to no force at all.			
	12	State that when balanced forces or no forces act on an object that its speed remains constant.			
	13	Explain, in terms of forces, why seatbelts are used in cars.			
		S2 Physics Forces and Motion Study Guide			
Projectiles					
At the end of the section I can:					
	1	Describe how the angle of launch effects the range of a projectile.			