



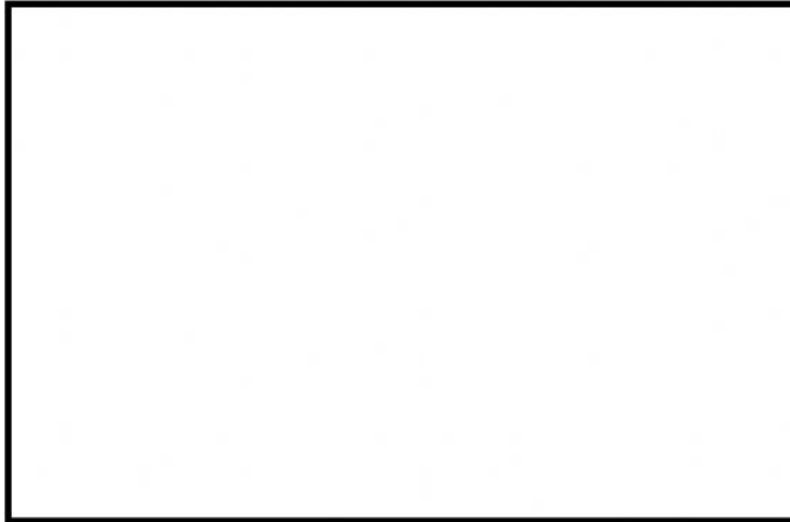
## Paper work 1

Name :

Class :

Title :

The Newton's Second Law



**Question:**

What effect does the varying force and varying mass have upon the acceleration?

**Purpose:**

To use experimental data to determine the mathematical equation which relates force, mass and acceleration.

**Data section:**

**LINK :**

**table 1 : varying the force**

Applied Force (N)	Mass (kg)	Net Force (N)	Velocity-time Information	Acceleration ( $\text{m/s}^2$ )
10	2		t= 1 s , v= m/s	
20	2		t= 1 s , v= m/s	
30	2		t= 1 s , v= m/s	
40	2		t= 1 s , v= m/s	



**table 2 : varying the mass**

Applied Force (N)	Mass (kg)	Net Force (N)	Velocity-time Information			Acceleration (m/s <sup>2</sup> )
30	1		t= 1 s	, v=	m/s	
30	2		t= 1 s	, v=	m/s	
30	3		t= 1 s	, v=	m/s	
30	5		t= 1 s	, v=	m/s	

### **Conclusion**

When the force increases, the acceleration become

### **Discussion of Results**

Based on the data, the effect of mass on the acceleration is :