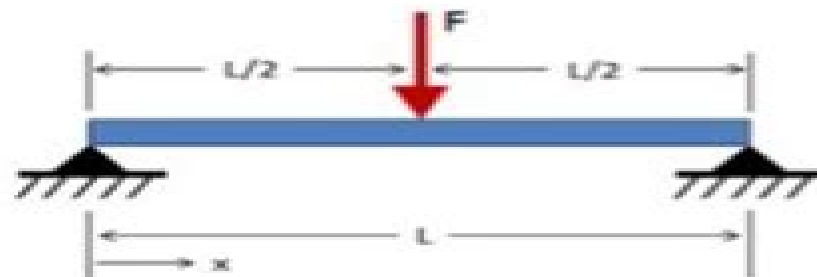


## BEAM DEFLECTION - LAB REPORT

### THEORY

1. Simply supported beam with central point load



### BEAM DEFLECTION

Investigate the relationship between loads, spans, width, height and deflection beam and young's modulus of the beams

Equations:

$$y = \frac{FL^3}{48EI}$$

$$I = \frac{bd^3}{12}$$

Span of tested beam,  $L = 600$  mm

Width of beam specimen,  $b = 25$  mm

Depth of beam specimen,  $d = 6$  mm

Results: **Experiment 1**

Material	Weight (g)	F (N)	E(N/mm <sup>2</sup> )	I (mm <sup>4</sup> )	Y (mm) of experiment	Y (mm) of calculation
Steel	100	0.981	200,000		0.07	
Steel	200	1.962	200,000		0.13	
Steel	300	2.943	200,000		0.24	
Steel	400	3.924	200,000		0.35	
Steel	500	4.905	200,000		0.47	

# Beam Deflection Lab Report

**Master Car Builders' Association**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the text 'Master Car Builders' Association'.

## **Beam Deflection Lab Report:**

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**Bibliography of Scientific and Industrial Reports** ,1946      **Railway Age and Northwestern Railroad** ,1906  
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