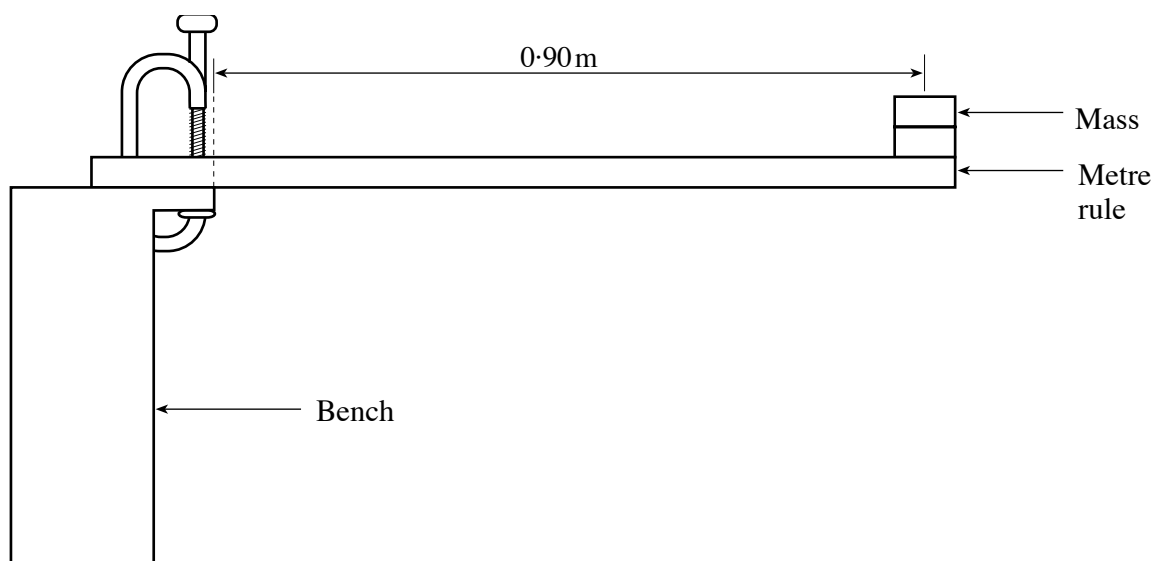


**Question 3**

You are going to determine the Young modulus of the material of a metre ruler using two different methods.

**Method 1**

Attach the two 100g masses to the metre rule using the elastic band. Clamp the metre ruler to the bench allowing an overhang of 0.90 metres.



- (a) (i) By displacing the metre rule a small amount and releasing determine the period of oscillation. Record your results below. [2]

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- (ii) Repeat this procedure for an overhang of 0.60 metres. [1]

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