

# DATA SHEET

# M0

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 Name
 

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 Date
 

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 Section
 

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## Error Analysis

### Section V-1

**Pendulum Bob diameter,  $d$ .** Record data on this sheet only after all students in the group have made all measurements for this section!

Ruler measurements:  $d =$  \_\_\_\_\_  $d =$  \_\_\_\_\_  $d =$  \_\_\_\_\_

Caliper measurements:  $d =$  \_\_\_\_\_  $d =$  \_\_\_\_\_  $d =$  \_\_\_\_\_

**100 g mass thickness**

Ruler measurements:  $t =$  \_\_\_\_\_  $t =$  \_\_\_\_\_  $t =$  \_\_\_\_\_

Caliper measurements:  $t =$  \_\_\_\_\_  $t =$  \_\_\_\_\_  $t =$  \_\_\_\_\_

### Section V-2

(a)  $\bar{t} =$  \_\_\_\_\_  $\sigma_t =$  \_\_\_\_\_

(b) Record data on this sheet only after all students in the group have made all measurements for this section!

#	Student 1	Student 2	Student 3
1			
2			
3			
4			
5			

# M0

## Section V-3

$$x_0 = \frac{\quad}{\text{Position 1}} \quad x_0 = \frac{\quad}{\text{Position 2}} \quad x_0 = \frac{\quad}{\text{Position 3}} \quad \sigma_{x_0}(\text{position 2}) = \frac{\quad}{\quad}$$

#	$m$ (g)	$x_m$ (cm)	$x_m$ (cm)	$x_m$ (cm)
1	20.0			
2	40.0			
3	60.0			
4	80.0			
5	100.0			
6	120.0			

Each student should measure  $x_m$  at each value of  $m$  with their eye in position 2 (see Figure MO-2).

**NOTES:**