| | Requirement | Possible points |
|---|---|---|
| **a** | x & $x_0$ is filled out correctly | 0.2 |
| | $|\Delta x|$ (cm) filled out correctly | 0.2 |
| | 30 times were measured | 0.2 |
| | times were averaged | 1 |
| | average time was squared | 1 |
| | displacements were square-rooted | 1 |
| | subtotal | 3.6 |
| **b** | title | 0.6 |
| | axis titles have 3 correct components and are on correct parts of graph | 1.4 |
| | axis have good scales | 0.4 |
| | subtotal | 2.4 |
| **c** | title | 0.6 |
| | axis titles have 3 correct components and are on correct parts of graph | 1.4 |
| | axis have good scales | 0.4 |
| | trend line has been added | 1 |
| | line equation has been added | 1 |
| | equation has been rounded to sig figs | 1 |
| | units has been added to equation | 1 |
| | acceleration calculated correctly on cover page | 0.25 |
| | subtotal | 6.65 |
| **d** | title | 0.6 |
| | axis titles have 3 correct components and are on correct parts of graph | 1.4 |
| | axis have good scales | 0.4 |
| | trend line has been added | 1 |
| | line equation has been added | 1 |
| | equation has been rounded to sig figs | 1 |
| | units has been added to equation | 1 |
| | acceleration calculated correctly on cover page | 0.25 |
| | subtotal | 6.65 |
| **e** | theta has been calculated using arcsine | 0.3 |
| | acceleration has been calculated via $a=g \cdot \sin(\theta)$ | 0.4 |
| | total | 20 |