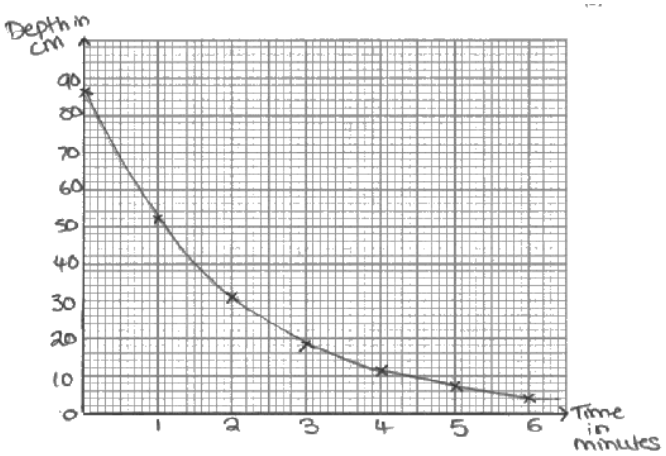
| Question number | Answer | Notes | Marks |
|---|---|---|---|
| 4 (a) | metre rule(r);<br><br>stop watch / stop clock; | allow (metal) tape measure / measuring tape / metre stick<br>ignore timer<br><br>either order | 2 |
| (b) (i) | suitable scale chosen (>50% of grid used);<br>axes labelled with quantities and unit;<br><br>plotting correct to nearest half square (minus one for each plotting error);;<br><br>line (curve) of best fit acceptable;<br><br>  <br> | reject 'm' for minutes<br>orientation unimportant<br>i.e. two plotting errors = no marks for plotting<br>i.e. smooth curve within 1 small square of each point<br><br>time in minutes / water depth in cm<br>0 / 86<br>1 / 52<br>2 / 31<br>3 / 18<br>4 / 11<br>5 / 7<br>6 / 4 | 5 |
| (ii) | idea that **depth** decreases with time;<br><br>idea that relationship is non linear; | allow RA<br>ignore 'negative correlation'<br>Ignore all references to 'proportional' and 'curved'<br>allow idea of rate arguments<br><br>e.g. 'depth decreases more slowly with time' gets 2 marks<br><br>allow exponential decrease for 2 marks | 2 |