**F.4 Biology Ch.11 Transport of substances and Support in Plants**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_( ) F. 4 \_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Practical Task Sheet**

**Measuring transpiration rate using different potometer**

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| Potometers | Calculation of transpiration rate |
| ppt_10_09  Principle: measuring the \_\_\_\_\_\_\_\_ of water absorbed by the plant and assume \_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Initial reading of the potometer  =  Final reading of the potometer  =  Time taken to carry out transpiration =  Rate of transpiration in terms of rate of bubble movement  = |
| http://www.lascells.com/perch/resources/la70-350potometer-w870h600.jpg  Principle: measuring the \_\_\_\_\_\_\_\_ of water absorbed by the plant and assume \_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Initial reading of the potometer  =  Final reading of the potometer  =  Time taken to carry out transpiration =  Rate of transpiration  = |
| http://www.phschool.com/science/biology_place/labbench/lab9/images/potomete.gif  Principle: measuring the \_\_\_\_\_\_\_\_ of water absorbed by the plant and assume \_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. | Initial reading of the pipette  =  Final reading of the pipette  =  Time taken to carry out transpiration =  Rate of transpiration  = |
| ppt_10_10  Principle: a direct measurement of the rate of water \_\_\_\_\_\_\_\_ from the plant through transpiration and the rate of water \_\_\_\_\_\_\_\_\_ | Initial reading of the burette =  Final reading of the burette =  Initial mass of the potometer =  Final mass of the potometer =  Time taken =  Rate of transpiration =  Rate of water absorption =  Which rate is higher? Why? |



