S2 Biology Ecosystems Measurement in Ecosystems HOMEWORK

DO NOT write on these sheets **GRAPH PAPER NEEDED** Number \_\_\_\_\_\_

1. The table below shows the results of a plant survey and light intensity.



a) Do you think that daisies grow best in light or dark conditions? Give a reason.

b) i) How would you measure the light intensity?

ii) Describe one error that may be made when making this measurement?

c) i) What equipment is used to sample the plants growing in an ecosystem?

ii) How can you ensure that your results are representative of the ecosystem you are sampling?

2. The table below shows a survey of worms and moisture taken form a garden.



a) In what sort of soil would you find most worms?

b) How would you test the soil to find out how much moisture was present?

3. The table on the right shows the changes in numbers of pond skaters in a year.

a) Use the information to draw a line graph.

b) What piece of equipment would you use to sample pond skaters?

c)What happens to the number of pond skaters from January to July?

d) During which two months is the number of pond skaters at their lowest?

e) i) Suggest an abiotic factor that may have caused the low number in these two months.

ii) How would you measure the abiotic factor named in question 3 e i) ?