

***Hydro Beads Absorption Experiment***

***Student Worksheet***

***Experiment 1: 100g of water with 20 beads:***

|  |  |  |
| --- | --- | --- |
| ***TIME (mins)*** | ***MASS OF WATER LEFT (g)*** | ***MASS OF WATER ABSORBED (g)*** |
| ***5*** |  |  |
| ***10*** |  |  |
| ***15*** |  |  |
| ***20*** |  |  |
| ***25*** |  |  |
| ***30*** |  |  |

***Total mass of water absorbed: …………….g.***

***As time goes by the mass of water left in the cup ……………. and the size of the hydro beads …………….***

***Experiment 2: 100g of water with 20 beads and a teaspoon of salt:***

|  |  |  |
| --- | --- | --- |
| ***TIME (mins)*** | ***MASS OF WATER LEFT (g)*** | ***MASS OF WATER ABSORBED (g)*** |
| ***5*** |  |  |
| ***10*** |  |  |
| ***15*** |  |  |
| ***20*** |  |  |
| ***25*** |  |  |
| ***30*** |  |  |

***Total mass of water absorbed: ………g.***



***The mass of water absorbed by the beads ……………… when salt is added to the water. This is because the salt causes the hydro beads to change shape and release some of the water they have absorbed.***

* ***Can you sketch a graph showing the time on the x-axis and the mass of water absorbed on the y-axis for both experiments?***