**Density Current Experiment**

Experimental Setup:

Lock gate

D

We are going to run the experiment three times, each time using a different amount of salt. In the table below you will need to record the time it takes the density current to move a distance D (remember to record what D you use!).

|  |  |  |  |
| --- | --- | --- | --- |
| **Experiment** | **1** | **2** | **3** |
| Mass of salt (g) | 5 | 10 | 20 |
| Distance (m) |  |  |  |
| Time (s) |  |  |  |
| Speed (m/s) |  |  |  |

After you have done all three experiments, use your measurements to calculate the speed of the density current. What happens to the speed of the density current as you increase the density of water behind the lock gate?