Experiment 2.2 Marking key

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| **Experiment write up** | **Marks** |
| Complete Aim, materials, diagram and method from book | 1 |
| Table 1 complete | 1 |
| Table 2 complete | 1 |
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| **Post lab Discussion** |  |
| Q1- The values of the sum of the forces up should equal to the sum of the forces down | 1 |
| Q2 – Torque clockwise should equal the torque anti-clockwise | 1 |
| Q3- Show calculations and show they equal | 1 |
| Q4- The the sum of the vertical forces should be zero. | 1 |
| Q5- The sum of the torque should be zero | 1 |
| Q6- When a system is in equilibrium, the sum of the moments in all position should be zero | 1 |
| Q7 – The centre of gravity of the beam will be in the middle | 1 |
| Q8 – The beam is uniform in mass | 1 |
| Q9 – So the base of the supports will not tip over due to the moments the beam will produce on the support | 1 |
| Q10- So the balance provides little to no moments to the beam | 1 |
| Q11- To only read the vertical forces at those points | 1 |