|  |  |  |
| --- | --- | --- |
| **Measurements**  | **Sample 1**  | **Sample 2**  |
| Food used  |  Marshmallow  | Fritos  |
| Mass of empty can (g)  |  13.9  | 13.9  |
| Mass of can plus water (g)  | 66.9   | 66.9  |
| Minimum temperature of water (°C)  | 30.9  | 34.6  |
| Maximum temperature of water (°C)  | 33.9  | 3  |
| Initial mass of food (g)  | 2.7   | .8  |
| Final mass of food (g)  | .002   | .001  |

|  |  |  |
| --- | --- | --- |
| Calculations | Sample 1 | Sample 2 |
| Mass of water (g) | 53 | 53 |
| Change in temperature of water (°C) | 8.2 | 5 |
| Change in mass of food sample (g) | 2.698 | .799 |
| Energy gained by water (chemistry calorie) | 548.58 | 334.5 |
| Energy content of food sample (chemistry calorie per gram) | 204.0043 | 22.314877 |
| Energy content of food sample (food calorie per gram) | .20401 | .22315 |