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| **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 |

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| 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 |