|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Food sample | Food group (carbohydrate/protein/fat) | Initial temperature of water (oC) | Final temperature of water (oC) | Change in temperature (oC) |
| Wotsit |  |  |  |  |
| Crisp bread |  |  |  |  |
| Dried broad bean |  |  |  |  |



**Calculation**

Using the equation below, work out the energy transferred to the water for each of the food samples tested:

 energy = mass of water (g) x 4.2 x change in

 transferred (J) temperature (OC)

 energy transferred in = ­­­\_\_\_\_\_\_\_\_\_ x 4.2 x ­­­\_\_\_\_\_\_\_\_\_

 carbohydrate food

= ­­­\_\_\_\_\_\_\_\_\_ J

 energy transferred in = ­­­\_\_\_\_\_\_\_\_\_ x 4.2 x ­­­\_\_\_\_\_\_\_\_\_

 fatty food

= ­­­\_\_\_\_\_\_\_\_\_ J

 energy transferred in = ­­­\_\_\_\_\_\_\_\_\_ x 4.2 x ­­­\_\_\_\_\_\_\_\_\_

 protein food

= ­­­\_\_\_\_\_\_\_\_\_ J

 Conclusion