

WJEC Wales Biology GCSE

SP1.3 - Energy Content of Food

Flashcards

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What needs to be measured to determine the energy content of food?



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Change in water temperature

Mass of food



State the formula for calculating the energy value of a food sample.



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Energy released from food per gram (J) =
mass of water (g) x temperature ($^{\circ}\text{C}$) change x
4.2 / mass of food sample (g).



Why should the boiling tube be at an angle?



Why should the boiling tube be at an angle?

So the water can be heated more evenly.



What should be done when the flame of the burning food sample goes out?



What should be done when the flame of the burning food sample goes out?

Relight it and continue to heat the water until the food sample does not relight anymore.



State 2 sources of error in this practical.



State 2 sources of error in this practical.

Incomplete combustion of food sample.

Heat loss to surroundings.



State a hazard and safety precaution involved in this practical.



State a hazard and safety precaution involved in this practical.

E.g: Take care to keep hands away from burning food, dripping fat from the food sample, hot equipment, hot water and the Bunsen flame.

