Biscuits & energy

TASK 1

1 Look at the food labels below, then fill in the table.

Wholewheat Breakfast Cereal Typical values per serving per 100g Energy 518 kJ 1440 kJ	Yogu Typical value Energy		Raspberry
SAUSAGES Typical values per serving per 100g	WHOLEN Typical values Energy	Per serving per 100g 330 kJ 956 kJ	TYPICAL VALUES per serving per 100g Energy 158 kJ 1052 kJ
Energy 601 kJ 1059 kJ		BUTTER Typical v	alues per serving per 100g 243 kJ 3046 kJ

		Type of food	Energy value in 100 g (kJ per 100 g)	Energy value in one serving (kJ per serving)
		cereal		
		jam		
		yoghurt		
		sausages		
		bread		
		butter		
2	Wh	nich food gives the most energy	per 100 g?	
3	Which food gives the most energy per serving?			
4	a How much energy would you get if you had a slice of bread and butter with jam on it?			

3	W	hich food gives the most energy per serving?		
4 a How much energy would you get if you had a slice of bread and butter with jan				
		Show your working		
	b	How much energy would you get if you ate a sausage sandwich made with two sausages?		
		Show your working		

TASK 2

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You are going to compare the amounts of energy stored in different foods.

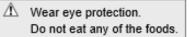
Introduction

Our bodies get the energy we need from the energy stored in food. Different kinds of food store different amounts of energy.

Method

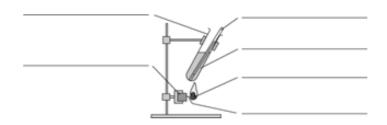
Apparatus

- · different kinds of food
- eye protection
- cork
- water
- clamp stand
- measuring cylinder
- Bunsen burner
- pin
- thermometer
- boiling tube



Label this diagram using words from the box.

boiling	tube	cork	food
pin	them	nometer	water



Fill in the missing words using words from the box below.

A	I will heat some water using the energy from a				
В	I will make it a fair test by using the amount of water each time and holding the burning food the same from the boiling tube.				
С	I will measure the volume of the water using a and pour it into a boiling tube.				
D	I will measure the temperature of the water using a				
Ε	I will the experiment with the other foods.				
	distance measuring cylinder piece of food repeat same thermometer				

Biscuit	Temperature of water before (°C)	Temperature after (°C)	Temperature rise (°C)
Jammie dodger	22	26	4
Oreo	20	23	3
Chocolate digestive	20	21.5	1
Plain digestive	22	23	1.5

When the food burned the energy stored in it was transferred to the water and made it hotter.

The food that gave the highest temperature was the	
This is the food which stores the	energy