IPC - Chocolate Week 3

Geography Task



This week we will be looking at how chocolate is manufactured (made).

First, can you write a definition for each of these words?

| Cacao |
|--|
| Cocoa |
| Cocoa exporters |
| Cocoa importers |
| Would you like to work on a cacao farm? |
| Would you get to eat lots of chocolate? |
| Let's find out! |
| Watch this link to find out what life is like on a cacao farm: |
| Unwrapping the bar https://vimeo.com/317259115 |
| |
| Can you explain what Fairtrade means in the box below? |
| |
| |
| |
| |
| |

Where is chocolate made?



The main manufacturers of chocolate in the world are the UK, USA, Switzerland, The Netherlands, Malaysia, Germany and Belgium.

Use your map from last week to find these countries and colour them in.

What do you notice about where these countries are?

Are they far away from where the cacoa farms are?

How do you think the cocoa beans are transported to these countries?

How is chocolate made?

Use these links to research the steps involved in making chocolate.

https://www.rainforest-alliance.org/pictures/chocolate-from-bean-to-bar

https://www.youtube.com/watch?v=4vXb8Tt_VCU

https://www.youtube.com/watch?v=fiMjr3Rwdjs

https://www.youtube.com/watch?v=xVyobAM-MFE

Using the information you have learned, try to write a sentence to describe what is happening in each of the pictures on the next page.

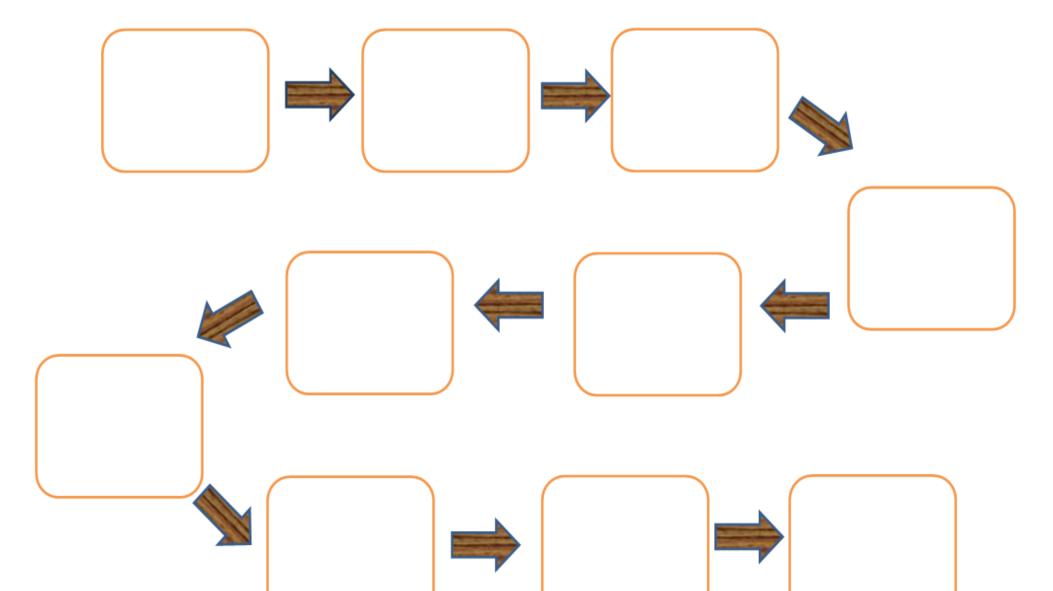
Then complete the flowchart to show the steps involved in making chocolate.

I can explain how chocolate is made



How chocolate is made

Can you put the events in order and write a short explanation for each?



Science Task

| V | ٨ | /ha | t is | cho | ncol | ate | made | of? |
|---|---|-----|------|------|------|-----|-------|-----|
| v | v | пa | เเง | UIIL | JUUI | aic | HIGUG | UI: |



| s it g | ood or bad for us? Expla | in your thoughts. | |
|--------|---|-----------------------------------|---|
| | | | |
| | | | |
| | | | |
| 22/2 | at the putritional informa | tion on a shagalata har urannar | |
| _OOK | at the nutritional informa | tion on a chocolate bar wrapper. | |
| | Typical values per 100 grams | | |
| | Energy | 525 kilocalories | |
| | Protein | 5.4g | |
| | Carbohydrate | 60g | |
| | of which Sugar | 59g | |
| | Fat | 29g | |
| | of which Saturated Fat | 17.5g | |
| | Fibre | 2.2g | |
| | Sodium (salt) | 0.06g | |
| | | | |
| | | | |
| | | | |
| Comp | olete this table to show th | ne nutritional value of your bar. | |
| • | | • | |
| • | olete this table to show the of chocolate bar | • | g |
| • | | • | g |
| • | | • | g |
| • | | • | g |
| • | | • | g |

The main ingredients are **sugar** and fat but how much sugar and fat do we need every day? Explore what you need here:

www.bbc.co.uk/northernireland/schools/4_11/uptoyou/healthy/nutrientfacts5.sht ml

Burning off Energy

A chocolate bar provides you with a lot of energy. If your body released this energy instantly, you would explode like a stick of dynamite. But this doesn't happen because your body burns the energy off slowly, doing all the things it needs to do to keep you alive and working properly.

The amount of energy you need depends on many things including how much exercise you do. Your body is using energy all the time – even when you are asleep.

Watch this clip to find out how long it takes to burn off the energy from a chocolate bar: https://www.youtube.com/watch?v=cF4_hEsva8Y

Time taken to eat a chocolate bar: 1 minute

Time taken to burn off the energy from a chocolate bar:

A bar graph to show _____

Running – 14 minutes

Walking – 52 minutes

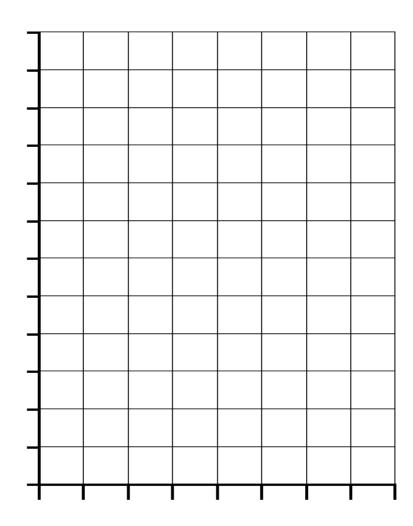
Skipping – 25 minutes

Swimming – 24 minutes

Football - 30 mins

Sleeping – 5 hours

Can you show this information on the bar chart?



Label:

Now, if you are allowed to eat the chocolate bar choose an activity (not sleeping!) and work off the energy in that bar using the data given. E.g. choose to play football for 30 minutes or do 25 minutes skipping.

Then answer the following questions:

| If you had to do amount of exercise every time you ate a chocolate bar would you think more carefully about eating a chocolate bar? Explain why. |
|--|
| If you were going to run a marathon, would it be better to eat a chocolate bar before or after you ran the marathon? |
| Why is it important to balance chocolate-eating with activity? |
| 4. What happens to the energy you don't burn off? |
| 5. Is it a good idea to eat chocolate at bedtime? Why? |
| 6. How can we enjoy chocolate as part of a healthy diet? |
| |