**KS3 work for food and nutrition and Horticulture (Years 8 and 9)**

**Easter break to May half term -** [**https://www.bbc.co.uk/bitesize**](https://www.bbc.co.uk/bitesize)

**Week 1**

Instructions on how to navigate the task on your computer

* BBC Bitesize
* Secondary
* England KS3
* Subject: Design Technology
* Food Technology
* Health and safety in Food Technology 1 minute 53 seconds

**Task - Extended written task**

Use the following **prompts** to write a description of the HEALTH AND SAFETY (title) within a catering establishment

* What is the business
* What are the health and safety requirements in terms of the protective personal equipment (PPE) the workers have to wear?
* What is so special about the plasters they use?
* Explain what is meant by a ‘plain band’?
* What is the significance of the metal detector and why is it used in food production?
* What is a risk assessment?
* Give examples of potential risks
* Why is dough a live product? (CHALENGE TASK)
* What are the specifications for the Lorries?

DO **NOT** ANSWER THIS AS QUESTIONS, THE POINTS ABOVE ARE INTENDED AS PROMPTS ONLY– THIS IS AN EXTENDED WRITTEN TASK BASED ON YOUR OBSERVATIONS OF THE VIDEO CLIP

**Week 2**

Instructions on how to navigate the task on your computer

* BBC Bitesize
* Secondary
* England KS3
* Subject: Design Technology
* Food Technology
* Lochy Porter – Polytunnels and pesticide-free fruit 2 minutes and 22 seconds

**Task - Answer the following questions (Data Interpretation)**

1. What is a polytunnel (full description and purpose)
2. How has the use of the polytunnel allowed the season for strawberries been extended from just2 months of the year to more than 6?
3. How has the speed of mechanisation been increased?
4. What is the relevance of air circulation?
5. What did the consumer panel tell the farmer?
6. What is the difference between Organic and pesticide free? (CHALLENGE)

**Week 3**

Instructions on how to navigate the task on your computer

* BBC Bitesize
* Secondary
* England KS3
* Subject: Design Technology
* Food Technology
* How Marshmallows are made 7 minutes 51 seconds

**Answer the following questions – Data interpretation and research task**

1. What is the connection between pigs and marshmallows
2. What is gelatine?
3. What is gelatine used to make?
4. What is collagen?
5. What is the treatment process to gain the collagen?
6. What is the vegetarian alternative to gelatine? (CHALLENGE)
7. Which religions to not allow pork in their diets? (CHALLENGE)
8. What is glucose syrup? (CHALLENGE)
9. How is glucose syrup made? (CHALLENGE)
10. What process is used to make the marshmallow white?

**Week 4**

Instructions on how to navigate the task on your computer

* BBC Bitesize
* Secondary
* England KS3
* Subject: Design Technology
* Food Technology
* Peanuts – from farm to packet 4 minutes and 25 seconds

**Task - Extended written task**

Explain the process **From farm to packet** (title) – use the following prompts to help you write this up

* How peanuts are grown
* Explain what a peanut looks like when it is still on the plant
* The types of debris that are removed in the processing
* Types of machinery used to process them
* What the compressed air does
* How peanuts are cooked
* How peanuts are finished before they are packaged
* What testing happens at the end of the process before packing

**Week 5**

Instructions on how to navigate the task on your computer

* BBC Bitesize
* Secondary
* England KS3
* Subject: Design Technology
* Food Technology
* Reduced use of pesticides for growing raspberries 4 minutes and 50 seconds

**Task - Research and data collection**

Draw a table like the one below and fill it in with as many fruits as you can research on the internet

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Berries  | Tropical fruits | Citrus fruits  | Hard fruits  | Soft fruits  | Exotic fruits  |
|  |  |  |  |  |  |

What are pesticides and how and why do we use them?

Draw a chart like the one below and put as many reasons in each of the sections as possible

|  |  |
| --- | --- |
| Explain the benefits of pesticides  | Explain the down side of using pesticides |
|  |  |

Research and write about one other very inventive way we can get rid of pests without the need for chemicals. (CHALLENGE)

**Week 6**

Instructions on how to navigate the task on your computer

* BBC Bitesize
* Secondary
* England KS3
* Subject: Design Technology
* Food Technology
* What is apple concentrate? 7 minutes and 22 seconds

**EXTENDED WRITTEN TASK**

Explain how apple juice is made using key words picked out from the clip, don’t forget to explain how concentrate is made? Explain the difference between apple juice made from concentrate and apple juice that is freshly squeezed.

What is the name of naturally occurring sugar from fruits? (CHALLENGE)

Why is the apple juice made in the clip, brown? (CHALLENGE)

Convert 185 million litres into gallons (numeracy task)

Find the meanings to the key words

Condense

Concentrate

Evaporation