# **Food Preparation and Nutrition**



## REVISION BOOKLET 4 FOOD SAFETY

Name: Tutor Group:

**Key Words** Complete the table below with an overview of the keywords for food safety.

Keyword	Definition	Keyword	Definition
Bacteria		Use-By-Date	
Microorganisms		Best-Before Date	
Moulds		Frozen Food	
Enzymes		Chilled Food	
Starter Culture		Hygiene	
Probiotic		High-Risk Foods	
Pathogens		Danger Zone	
Food Poisoning		Reheating	
		Core Temperature	

#### **Food Hygiene**

To make sure that our food is safe and clean to eat, we need to store, prepare and cook it hygienically.

- Good food hygiene includes:
- Good personal hygiene
- Careful buying and storing of food
- Safe preparation of food and thorough cooking
  - Good kitchen hygiene

### Spot the Hazard: Kitchen Hygiene

#### **Personal Hygiene**

Study the image below. Circle all the hazards you can see. Remember: A hazard is something that has the potential to cause harm.



On the outline below, draw how you should look before you start cooking. What key things do you need to remember?



#### **Preparing and Cooking Food**

When preparing and cooking food it is important to have high personal and food hygiene standards. Food must be cooked thoroughly to make sure it is safe to eat.

#### **Preparing High Risk Foods**

When preparing food, some foods are more of a risk than others: these are high risk foods. Protein-based foods, moist foods and ready-to-eat foods that require no further cooking are high-risk foods.

In the table below, list high and low risk foods.

#### **Cooking and Reheating**

Pathogenic bacteria can be destroyed and food made safe by thorough cooking. If food is not cooked correctly, pathogenic bacteria may survive and cause food poisoning.

Why should leftover food only be reheated once?



#### Hand Washing Our hands can pass bacteria and germs onto food, so wash your hands before and after handling food. Bacteria spreads more guickly if hands are wet so dry hands thoroughly. Fill in the missing words in the following sentences: Colour the diagram to show the parts of the hands that are often missed Eating Dirty Sneezing Pets Toilet Touching when washing hands. Coughing Nose Playing Kev: When do you need to wash your hands? □ Areas most frequently missed during hand washing After going to the \_\_\_\_\_. **Less frequently missed** 1. Before \_\_\_\_\_\_ and \_\_\_\_\_ food. 2. Not missed 3. If your hands look or feel \_\_\_\_\_. 4. After playing with \_\_\_\_\_\_. 5. After \_\_\_\_\_ outside. 6. After \_\_\_\_\_ or \_\_\_\_\_ or blowing your nose. List 5 other occasions when you must wash your hands: 1. 2. \_\_\_\_\_ 3. \_\_\_\_\_ 4. 5. \_\_\_\_\_ What items does a hand wash sink require? Draw the missing items and annotate the sink below: Back of Hand Palm of Hand



#### Food Poisoning Bacteria

There are over 14,000 notified cases of food poisoning each year. Food poisoning is caused by harmful (pathogenic) bacteria multiplying on food. Complete the table below showing where the main pathogens are found:

Pathogenic Bacteria	Found in	Symptoms	Onset Time
Clostridium Perfingens			
Clostridium Botulinum			
Salmonella			
Staphylococcus Aureus			
Bacillus Cereus			

#### Food-Borne Disease

Food-borne diseases are carried by pathogenic microbes (bacteria and viruses) carried on food. These microbes do not multiply in the food but in the person who has eaten the food.

Pathogenic Microbes	Found in	Symptoms	Onset Time
Escherichia-Coli (E-Coli)			
Listeria Monocytogenes			
Campylobacter			
Norovirus			

#### Date Coding

Food labels carry date codes and, to maintain the safety and quality of food, it is important to check that food is not out of date. Date codes only refer to the product before the pack is opened. After opening, the food should be handled and stored according to instructions and eaten within 2 days.

Why is it important for food labels to show date codes?



What is the difference between the date codes 'use-by', 'best-before' and 'display until'? Give 3 examples of food products which use each type of date code.

Discuss: should fresh vegetables carry date codes?

#### **Storing Food**

When handling food at any stage, from buying the food through to correct storage, steps must be taken to prevent contamination. Everything possible must be done to control the conditions that allow bacteria to multiply, causing food poisoning.

Temperature

Reason

Freezer (bacteria are dormant- not dead)

#### Storing Food

It is important to store food properly.

Food should be wrapped, covered or kept in a suitable clean container.

Complete the table below with	top tips for food storage:	Fridge (never put hot food into a fridge)		
Dry Food Storage	Chilled Food Storage	DANGER ZONE		
		Hot holding of food		
		Core temperature of cooked food		
		Boiling point		
Frozen Food Storage	Defrosting Food			

#### **Microorganisms in Food Production**

Microorganisms (bacteria) are used to make a wide range of food products.

Bacteria are used to make cheese, yogurt and bread. The most important bacteria in food manufacturing are the Lactobacillus species.

Explain how the products below are manufactured using microorganisms:

Cheese Production		Yogurt
Blue Cheese		
Soft Ripened Cheese		<b>The Meat Industry</b> Salami, pepperoni, chorizo, dried ham.
Rind-Was hed Cheese		Bread-Making

#### **Accident Prevention**

A catering kitchen can be a dangerous place. Complete the table of the main dangers with way of preventing accidents in the kitchen. You need to have 3 preventions for each hazard, some have been done for you.

Hazard	Prevention 1	Prevention 2	Prevention 3
Floors			
Knives			
Electrical Equipment	Check electrical wires are not frayed or worn		
Saucepans			
Fryers	Do not fill above indicated fat level	Do not put wet foods in fryers	
Foods	Be aware that fish bones and meat bones can cause cuts		
Storing Equipment			
Hobs (Gas and Electric)			
Clothing			
Behaviour			
Cleaning	Do not 'mix' cleaning materials		

#### HACCP

This is now a legal requirement for all food businesses to carry out some form of hazard analysis to ensure that all food is safe to eat and no items have been contaminated. Every aspect of food safety will be monitored for hazards from how the raw ingredients are produced, to how they are transported, prepared and cooked through to selling the final product.

#### Learn what HACCP stands for:

#### **Critical Control Points**

There are areas in the food business where control is essential to reduce the risk of food poisoning. If a caterer 'gets it wrong' they could be breaking the law, so it is important to ensure every step from the purchasing of food through its preparation and serving is controlled.

#### **HACCP Chart**

Action

A business has ordered a variety of fresh and frozen fish. Using the HACCP system, explain the hazards and actions you would take at each of the below stages.

Hazard

What is classed as a hazard?	
food products, a hazard is anythi	ir

In food products, a hazard is anything that can cause harm to a customer.

A hazard will be biological, chemical or physical.

Complete the table below with examples for each type of hazard:	Accepting the Delivery	
Biological		
Chemical	Storing the Fresh and Frozen Fish	
Physical	Preparing and Cooking the Fish	