Year 8 - Food and Nutrition

Key Vocabulary

High Risk Food	A food that is an ideal medium for the growth of bacteria or microorganisms.			
4C of Food Hygiene	Cooking, cleaning, chilling and cross contamination.			
Food Poisoning	An illness caused by eating contaminated food.			
Food Poisoning Bacteria	Micro-organisms in food which can cause illness.			
Personal Hygiene	Covers handwashing, clothing, fitness for work and training			
Macronutrients	Are needed in large amounts by the body and are called protein, fats and carbohydrates			
Micronutrients	Are needed by the body in smaller amounts and are called vitamins and minerals.			
Allergens	Substances or foods that may cause an allergic reaction.			

Key Skills





Planning

Evaluation

Making

Making & Skills

- Stir fry- Using a wok/ Stir frying
- Upside Down Cake Creaming Method.
- Cheesecake Checking for readiness, layering & setting.
- Scones- Shaping, glazing rubbing in method.
- American Pancakes Portion control/use of raising agents/batter making
- Whisked Sponge– Use of the oven/electric whisk /presentation
- Bread dough making
- Tikka Naan marinading/portion control

Planning

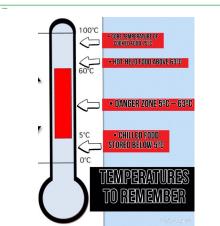
- Food Poisoning 4 conditions bacteria need to grow: Food, time, warmth and moisture.
- Cross Contamination occurs when bacteria or traces of allergens get into products accidently.
- Food Storage: to prevent or reduce the speed at which bacteria multiply it is important to keep hot food hot, cold food cold and keep prepared food out of the danger zone.
- Key Temperatures: 100oC boiling point of water, reheat and cook food to 75oC or above, danger zone 5oC- 63oC, fridge temperature 0oC – 5oC and freezer temperature -18oC



Food Poisoning Chain

For bacteria to grow they need:







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Nutrition & Health

- What's on a food label: name of the product; date of durability, instructions for use; origin; manufacturer's name & address; nutrients; storage; net quantity; allergens and ingredients.
- Nutritional Labelling: information on nutrients must be listed in this order: energy; fat; saturates; carbohydrates; sugars; fibre (not required by law); protein, salt; vitamins & minerals.
- Traffic light system fat, saturated fat, salt & sugar are labelled on a food product in either green, amber or red.
- 14 common food allergens: celery, cereals containing gluten (such as wheat, barley and oats),crustaceans, eggs, fish, lupin, milk, molluscs, mustard, peanuts, sesame, soy beans, sulphur dioxide & sulphites and tree nuts.
- Macro Nutrients: needed in large amounts by the body and are called protein, fats and carbohydrates
- Micronutrients: needed by the body in smaller amounts and are called vitamins and minerals.

Nutrition Facts

Serving Size 1 Patty, 5.33 oz (151g) Servings Per Container 2

Amount Per Serving)				
Calories 240	Calor	ies from Fa	t 110		
		% Daily	Value*		
Total Fat 12g			18%		
Saturated Fat	6g		30%		
Trans Fat 0g					
Polyunsaturate	ed Fat 0	g			
Monounsatura	ted Fat	5g			
Cholesterol 90	mg		30%		
Sodium 115mg			5%		
Total Carbohyd	irate Og		0%		
Dietary Fiber ()g		0%		
Sugars 0g					
Protein 30g			60%		
Vitamin A 0%	•	Vitamin C	0%		
Calcium 0%	•	Iron 20%			
* Percent Daily Value calorie diet.	s are base	id on a 2,000			
Ead	ch se	rving (1	150	g) conta	ins
Energy	Fat	Satur	ates	Sugars	Sa

Energy 1046kJ	3.0g	Saturates 1.3g	Sugars 34g	Salt 0.9g
250kcal	LOW	LOW	HIGH	MED
13%	4%	7%	38%	15%

of an adult's reference intake Typical values (as sold) per 100g: 697kJ/ 167kcal



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Food Science

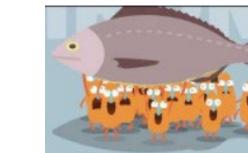
- Dextrinization: Breaking up of the starch molecules into smaller groups of glucose molecules when exposed to dry heat, e.g. toast
- Gelatinisation: when starches are heated with liquid, they swell and will thicken. This is a key process in sauce making.
- Enzymic Browning: oxidation reaction that takes place in some foods, mostly fruit and vegetables, causing the food to turn brown.
- Maillard reaction: is the process that is responsible for the golden-brown colour and crust that forms on well-arilled meat.
- Heat transfer: heat energy can flow by conduction; convection or radiation. It always flow from a hot source to a cold source.

Sustainability

Factors affecting food choice

- Budget: the amount of money available to buy ٠ food.
- Seasonality: foods that are only available at ٠ certain times of the year.
- Sustainability: meets the needs of the present, ٠ without making it difficult for future generations to meet their own needs.
- Food Preservation: processes that allow foods to last longer e.g., drying, canning, chilling & freezing

Taking it Further Macro & Micronutrients video



https://www.youtube.com/watch?v=zl2XR1a_4DU&t=2s
I can explain how to prevent

Food Safety



https://www.youtube.com/watch?v=flxmB8NKMzE

Food Labelling



https://www.youtube.com/watch?v=bLKoAsikD-Q



Learning Checklist

- I can use a variety of practical skills to make high quality outcomes.
- I can name the four conditions that bacteria need to grow
- cross contamination.
- □ I can name 5 key temperatures for food storage and cooking.
- □ I can explain the traffic light food label
- □ I can name and explain the main functions of the macronutrients
- □ I can name the two aroups of micronutrients and explain the functions of Vitamin A & C, calcium and iron.
- I can explain a range of food science turns.