



# UKS2 D.T: FOOD AND NUTRITION KNOWLEDGE ORGANISER



## Preparing and Cooking Processes

### Preparing Processes

Preparing processes are the different ways that we get food ready to be eaten.

- Slicing:** cutting food using a knife.
- Mixing:** to blend ingredients together, using a spoon, blender, or whisk.
- Weighing/measuring:** to get the right amount of an ingredient, using scales, table/teaspoons
- Grating:** to peel a layer off something (like carrots or cheese) using a peeler or grater.
- Serving:** making food look nice on the plate.
- Adding/ substituting:** changing the taste of food by adding or replacing ingredients.



### Cooking Processes

Cooking processes are the different ways that we heat food before it is eaten.

- Baking:** to cook food in a heated oven.
- Boiling:** to cook food in boiling (100°C) water.
- Frying:** to cook food in a pan of heated oil.
- Grilling:** to cook food by putting it under a hot grill (like a radiator in a cooker).
- Griddling:** to cook on a flat iron plate called a griddle.
- Steaming:** to cook using steam, normally from boiled water.
- Poaching:** to cook by simmering in a small amount of liquid.



## Where Food Comes From

### Grown, Raised, Caught

It is important to know that foods are grown, raised and caught more easily during certain seasons. This is called **seasonality**.

#### Some food is **grown**

- In order for us to get cucumbers, we need to **grow** a cucumber plant. Cucumbers grow on the vines of cucumber plants. In the UK, the cucumber season is between March and June, when they grow most naturally in the seasonal conditions.



#### Some food is **raised**

- In order for us to be able to eat chicken, we need to **raise** chickens. Eggs are **laid** by female chickens. In order to be sustainable, we need to know that most chicks are born in the spring/ summer seasons.

#### Some food is **caught**

- In order for us to get tuna, we need to **catch** the tuna-fish. There are also seasonal changes for caught food, as animals can migrate. E.g. a lot of tuna is caught between November-May in the Pacific off San Francisco.

### Eating Sustainably

-With modern technology, it is possible to grow and rear food out of season.

-However, growing and rearing foods out of season consumes a lot of energy, because the process takes place in artificial conditions, and needs a lot of resources, for example heat, light, water and nutrients.

-Eating sustainably is about finding the **right balance** between your food needs and your food choices. It helps to reduce our **carbon footprint**.



### Key Vocabulary

- Healthy & Varied Diet
- Food/Meal Plan
- Calories
- Saturated Fat
- Adding/ Substituting
- Griddling
- Steaming
- Poaching
- Seasonal Produce
- Seasonality
- Sustainability
- Health & Safety

## A Healthy and Varied Diet

### Food Groups

You should now know how much to eat of each food group

- Fruit and vegetables** – Eat lots! About 5 portions per day. Good for vitamins, minerals and fibre. Fresh, tinned and juices all count.
- Carbohydrates** – Eat lots! Include in every meal. Good for energy (carbohydrates), vitamins, minerals and fibre.
- Proteins** – You should eat about 2-3 portions per day. Good for muscle-building (protein), vitamins and minerals.
- Dairy** – You should eat about 2-3 portions per day. Good for muscle-building protein, vitamins and minerals.
- Fats and Sugars** – Only eat occasionally and in small amounts. Good for energy and fat reserves in small amounts. Cut down on saturated fats.



### A Varied Diet

--In order to stay healthy, it is important that we eat a balanced diet of foods from each of the five food groups. Too much of any one food group is not healthy for us.

- You should be able to create a weekly **food plan**, incorporating a healthy and varied diet of foods across each day and the week.
- Your plan should apply your understanding of which foods within groups have advantages and disadvantages (e.g. 'fish has less fat than red meat' and 'use a low-fat butter alternative').

-You may even be able to understand calories and how they work, and count these in your food plan!

	MON	TUE	WED	THU	FRI
BREAKFAST	Green Smoothie	Berry Smoothie	Creamy Smoothie	Green Smoothie	Berry Smoothie
Mid-morning Snack	Easy Green / Ginger Shot	Easy Green / Ginger Shot	Easy Green / Ginger Shot	Easy Green / Ginger Shot	Easy Green / Ginger Shot
LUNCH	Balance Soup / Protein Bread (2 slices)	Glow Soup / Protein Bread (2 slices)	Nourish Soup / Protein Bread (2 slices)	Refuel Soup / Protein Bread (2 slices)	Balance Soup / Protein Bread (2 slices)
Mid-afternoon Snack	Snack Bar	Snack Bar	Snack Bar	Snack Bar	Snack Bar
DINNER	Coconut Curry	Mac & Greens	Vegan Chilli	Coconut Curry	Vegan Chilli

## Food from Around the World

### Seasonal Foods around the World



-It is important to remember that the seasons are different in different places over a year.

-In the **northern hemisphere**, spring takes place between March and May. In the southern hemisphere, spring is September to November.

Therefore, **foods are in season in different places at different times of the year**. Cucumbers can be naturally grown in the northern hemisphere March-June, and in the southern hemisphere October-December.

### UK Seasonal Foods



**Winter:** Apples, Beetroot, Sprouts, Cabbage, Leeks, Mushrooms, Onions, Parsnips, Pears, Turnips.

**Spring:** Artichokes, Asparagus, Aubergines, New Potatoes, Rhubarb, Rocket, Spinach, Spring Greens, Spring Onions.

**Summer:** Blackcurrants, Broad Beans, Cherries, Chillies, Courgettes, Gooseberries, Garlic, Strawberries, Water Cress.

**Autumn:** Butternut Squash, Cauliflowers, Chicory, Elderberries, Marrow, Pumpkin, Wild Mushrooms, Squash.

## Health and Safety

- Remove any jewellery and tie back long hair. Ideally, wear a hair net.
- Wear an apron and roll up your sleeves. Tie your apron securely.
- Wash your hands with hot water and antibacterial soap, for at least 20 seconds.
- Washing your hands should be done before, during and after preparing food.
- Use different chopping boards and knives for raw meat & other foods. This stops bacteria spreading.
- Use a food thermometer to check that food is cooked through.
- Check the dates on food, and check for allergies & diet e.g. vegetarian, vegan.
- Make sure that you clean up properly after yourself.