The NEW Healthy Food Pyramid!!

Two things that can guide us towards a healthy balanced diet:

- 1. The Food Pyramid.
- 2. The Healthy Eating Guidelines.



- The food pyramid helps us plan for a healthier BALANCED diet.
- The food pyramid tells us the name of the food groups and the number of portions we should be getting from each food group.
- **This picture is different from the picture of the food pyramid in your book. A new shelf was added to the food pyramid in 2013.**
- The second shelf above is the new shelf which was added to the food pyramid.
- Fats, oils and low fat spreads were separated out into their own shelf as they provide us with the important nutrient--fat--, however it is important that these foods are eaten in moderation.

Healthy Eating Guidelines

- Eat less fat
- Eat less sugar
- Eat less salt
- Eat more fruit and veg
- Eat a variety of foods
- Drink more water
- Drink alcohol in moderation

Key Terms

Balanced Diet

Eating the correct amount of foods for what our bodies need.



Chapter 1: Food and Nutrition

Why do we eat food?

- \checkmark Food helps the body to grow.
- ✓ Provides the body with energy and warmth
- ✓ Protects the body against disease.

The table below has a key terms which you need to know in order to understand the study of nutrients

Nutrient	A chemical found in food that nourishes the body
Composition	What the nutrients is made up of
Source	A food that contains the nutrient
Function	The job the nutrient has in the body
Recommended Daily Allowance (R.D.A)	The amount of each nutrient we should eat each day
Deficiency Disease	An illness that occurs in the body caused by the lack of a nutrient
Classification	Putting things into groups based on something that they have in common.

Factors which affect our choice of food.

Our Senses

Lifestyle (Family and Friends)

Nutritional Value

Cost

Culture

Religion

Availability (Staple foods/in season).

Advertising

Classification of the 6 Nutrients

There are six nutrients that our bodies need. These are protein, carbohydrates, fat, vitamins, minerals and water.

Macronutrients	Micronutrients
Needed by the body in large amounts	Needed by the body in small amounts
They are too big to be absorbed by the body so they must be broken down	They are small enough to be absorbed by the body once eaten.
Protein, fats and carbohydrates	Minerals and vitamins

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Structure and Composition

Ms. O' Toole

Classification

Protein

(LBV)

Sources

There are different types of Amino Acids, and some amino acids are

Proteins are made up of basic units called Amino Acids. of better quality and therefore more essential in the diet. Amino Acids are small units that join together like beads on necklace. These high quality amino acids are called ESSENTIAL amino acids. They are joined together by **peptide links** to form chains of protein. Proteins are classified according to their quality (i.e. the amount of Each Amino Acid is made up of the elements: essential amino acids they contain). 1. Carbon 2. Hydrogen N.B High Biological Value Low Biological Value Nitrogen is 3. Oxygen Protein needed for 4. Nitrogen (HBV) growth Contains all essential Do not contain all amino acids essential amino acids Amino Acid Normally comes from Normally come from Peptide Link animal foods vegetable foods Protein Function High biological value sources Low biological value sources Growth of protein of protein Repair of worn out or damaged cells e.g. healing wounds It forms hormones and enzymes Meat, Fish, Eggs, Cheese, Soya Peas, Beans, Nuts Beans.

Classification and Sources

Structure and Composition

- Fats are made up of fatty acids and glycerol.
- These link together to form an Eshaped structure.
- Each molecule of glycerol is attached to <u>three fatty acids</u>.
- Glycerol and fatty acids contain carbon, hydrogen, oxygen.



Function

- Heat and energy
- A layer of fat in the skin **insulates** our body keeping us warm.
- Delicate organs in the body like the heart and kidneys are protected by a layer of fat around them. Also helps the nerves in our body.
- We get fat soluble vitamins A,D,E,K from fats

Structure and Composition

- The most basic unit of carbohydrates are simple sugars, for ٠ example glucose is a simple sugar.
- When several simple sugar units join together they form a chain ٠ of starch.
- Starch

Classification and Sources

