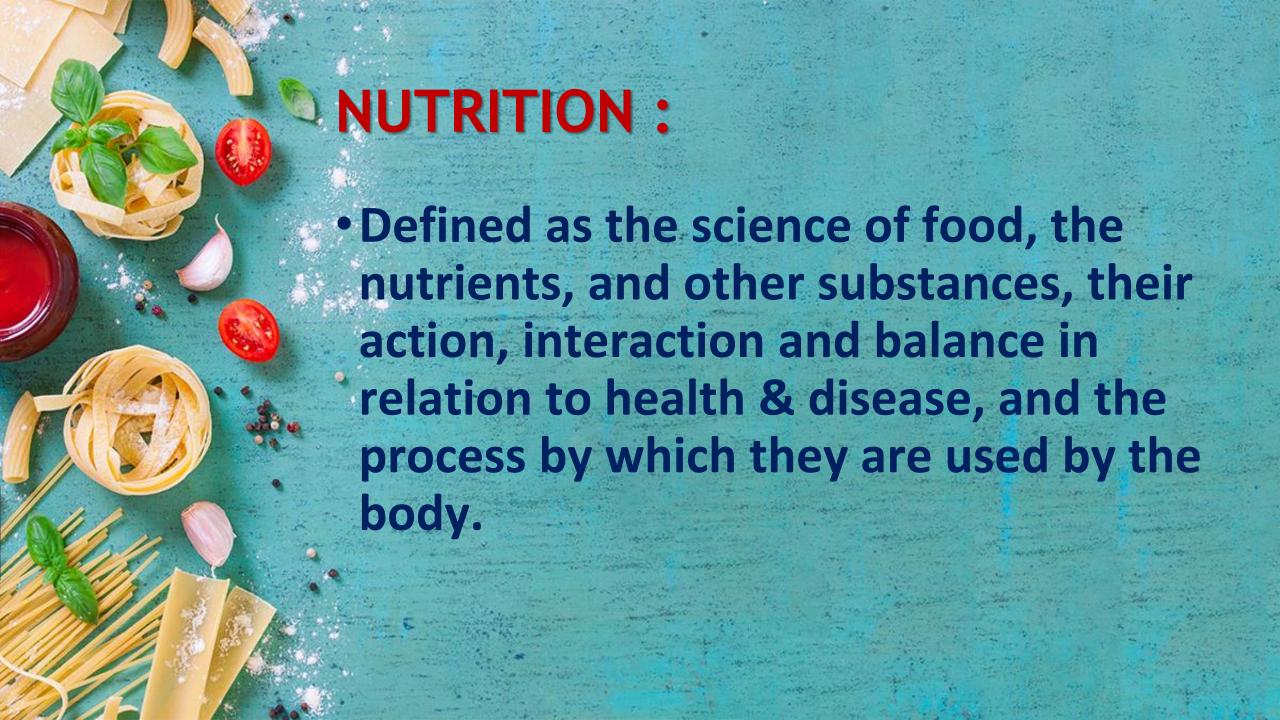




Learning Objectives:

- Define nutrition and describe its relationship to health and well-being.
- To know the importance of nutrition .
- To clarify some related terms.
- To understand the food pyramid and the purpose of its use.

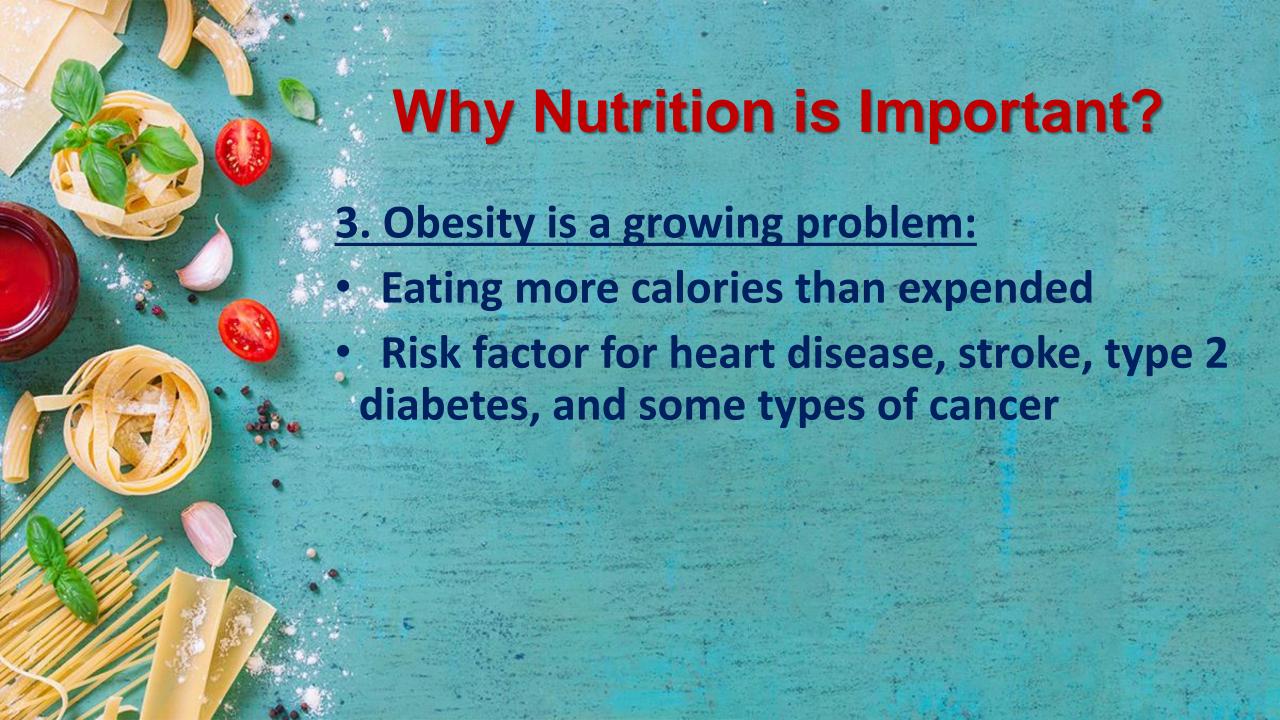




Why Nutrition is Important?

- 1. Proper nutrition supports wellness:
 - Wellness is more than the absence of disease
 - Physical, emotional, mental, psychological and
- Critical components of wellness







Why Nutrition is Important?

4. Nutrition is an international goal to promote optimal health and disease prevention.

Goals of Healthy People 2025

- Increase quality and years of healthy life.
- Eliminate health disparities.



FOOD AND NUTRITION OF AN INDIVIDUAL

- Development
- Gender
- Genetics
- Beliefs about Food
- Experience
- Personal Preference
- Nutritional habits
- The quality of food
- The quantity of food
- The efficiency of our digestive system
- Biochemical availability



Consequences Of Poor Nutrition On Health:

- 1. Cardiovascular disease (CVD)
- 2. Hypertension
- 3. Diabetes
- 4. Cancer
- 5. Osteoporosis
- 6. Problems of being overweight or obese
- 7. Mental Disorders



Terms Used In Nutrition

Nutrients:

 The <u>nourishing chemical</u> substances in food that provide energy and promote the growth and maintenance of human body.

The essential nutrients:

- Are those the body cannot make for itself in
- sufficient quantity to meet physiological needs, and which must therefore be obtained from food.



Terms Used In Nutrition

Nutrients:

- The <u>nourishing chemical</u> substances in food that provide energy and promote the growth and maintenance of human body.
- Chemical substances obtained from foods used in the body to provide energy, structure materials, regulating agents to support growth, maintenance, repair of body's tissues and may also reduce the risks of some diseases

The essential nutrients:

 Are those the body cannot make for itself in sufficient quantity to meet physiological needs, and which must therefore be obtained from food.



The Six Criteria for Nutrient Essentiality

The nutrient....

- is essential for one or more of the (8) functions of life
- is not synthesized or synthesized adequately in the body
- has a function that is either biochemical or structural
- if deficient, a recognizable loss of function or structure results
- if deficient the loss of function or structure is proportional to degree and duration of depletion
- if deficient the loss of function is, in the short term, reversible by the specific nutrient



The Six Types of Nutrients

•Food nourishes the body with more than 45 different nutrients. These nutrients are grouped into six categories.

- Carbohydrates
- **■** Proteins
- **■** Fats
- **Vitamins**
- **■** Minerals
- **■** Water



Eating a variety of foods to provide these nutrients is essential to good health.



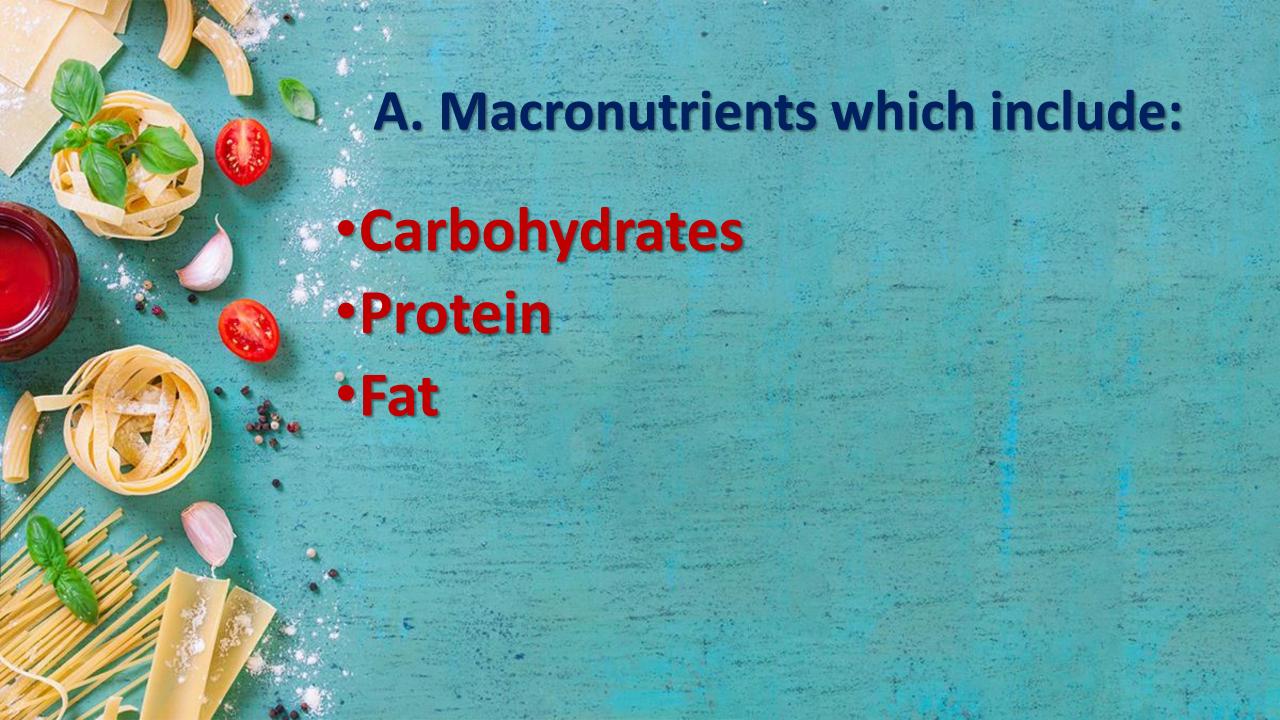
Classifications of nutrients

By function:

- Fuel Nutrients needed for energy: carbohydrates, fats, and proteins.
- Regulatory nutrients necessary to function normally with no caloric value: vitamins, minerals, and water

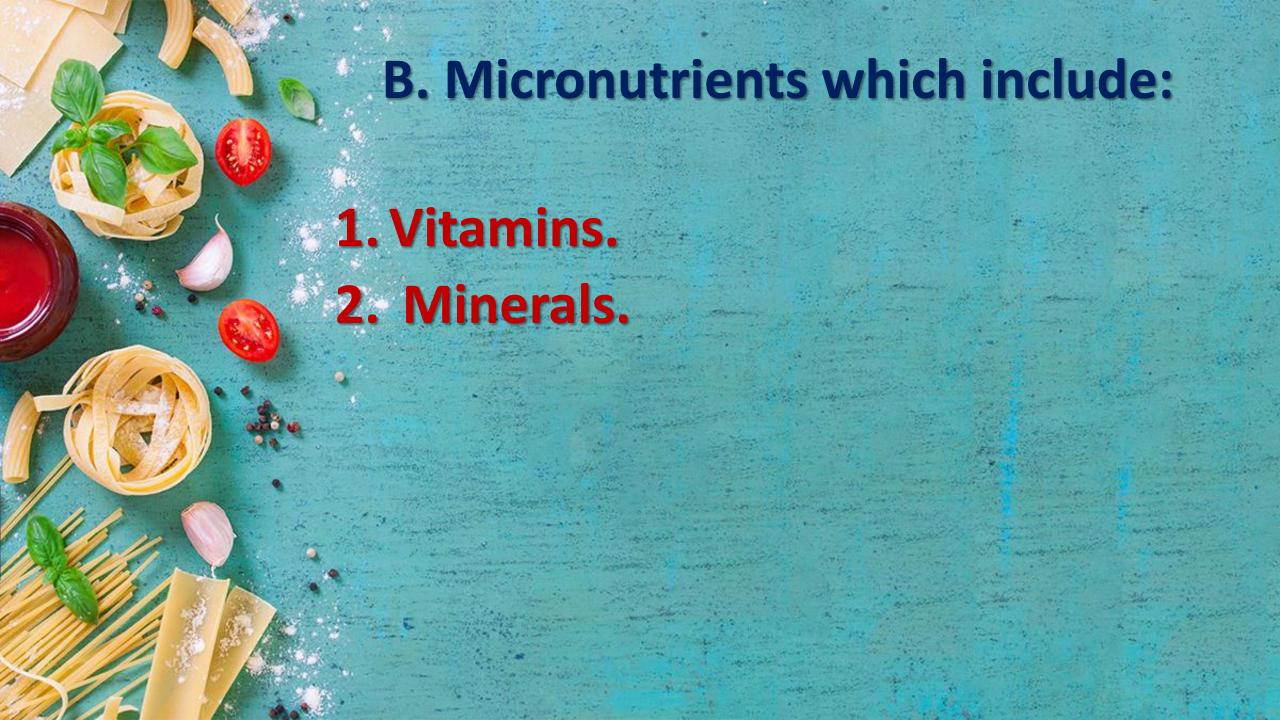
By Amount:

- Macronutrients needed in proportionally large amounts daily: carbohydrates, fats, proteins, and water.
- Micronutrients required in small amounts daily: vitamins and minerals.



Macronutrients











Water Carbohydrates <1% Carbohydrates <1% Minerals 6% Minerals 5% Protein 16% Protein 12% Fat 17% Fat 27% Water 61% Water 56% MALE **FEMALE**





Characteristics of a Nutritious Food

- Adequate
- Balanced
- Moderate
- Varied

The Balance of Good Health

Fruit and vegetables

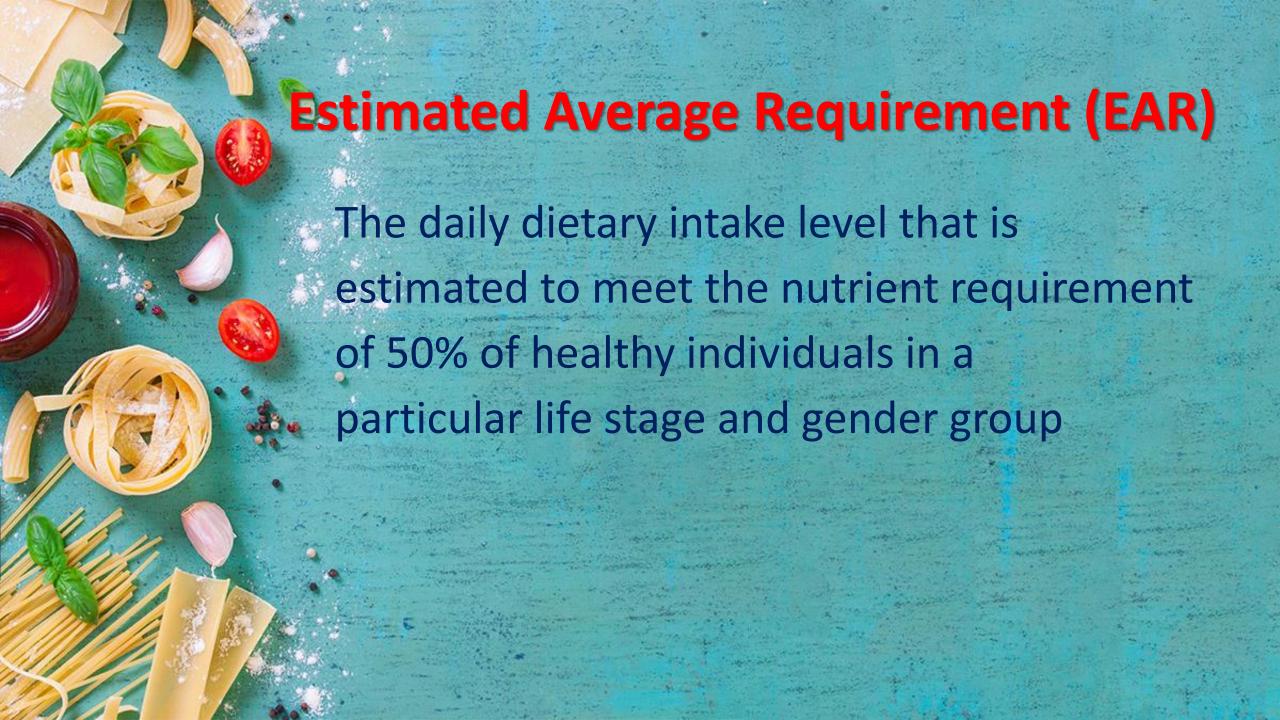
Bread, other cereals and potatoes

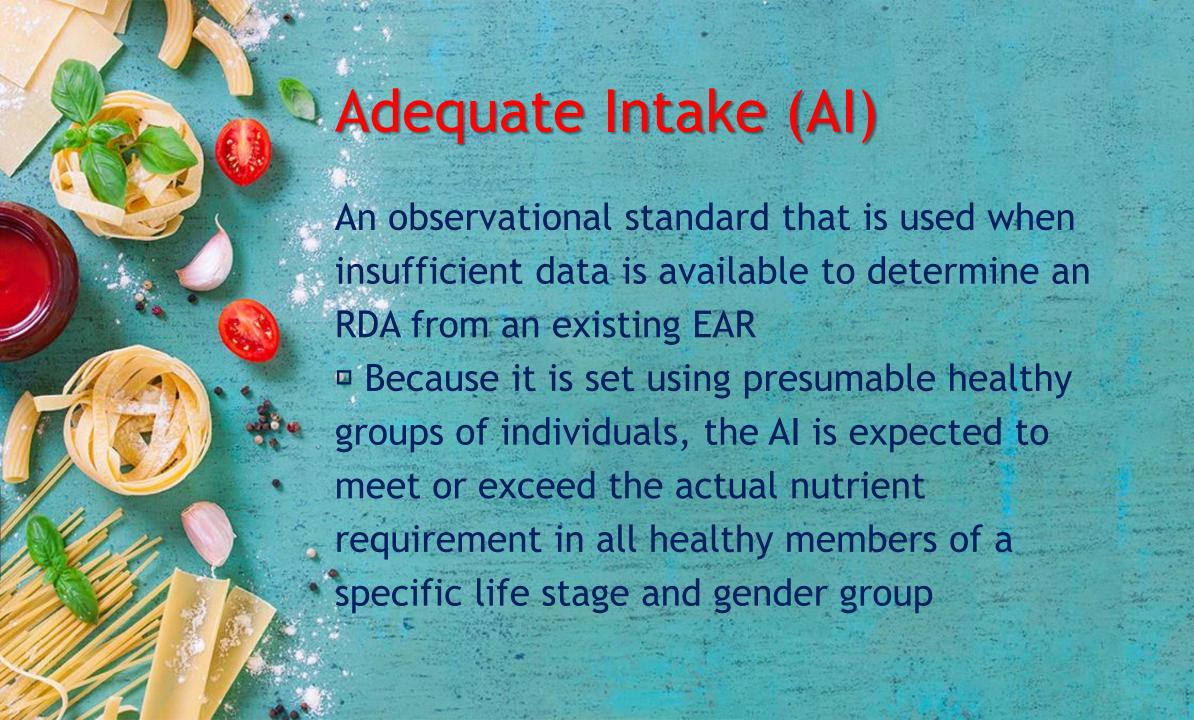


Meat, fish and alternatives

Foods containing fat Foods and drinks containing sugar Milk and dairy foods

There are five main groups of valuable foods









Nutrient allowances are categorized into (17) classifications based on age & sex.

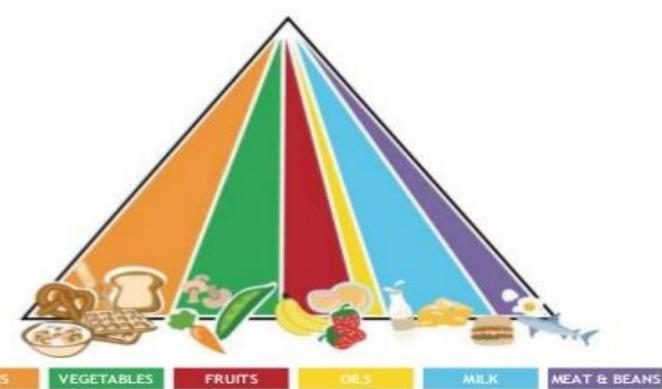
RDA does not provide the needs that have been altered as a result of disease states, chronic usage of certain drugs, or other factors that require specific individual attention.

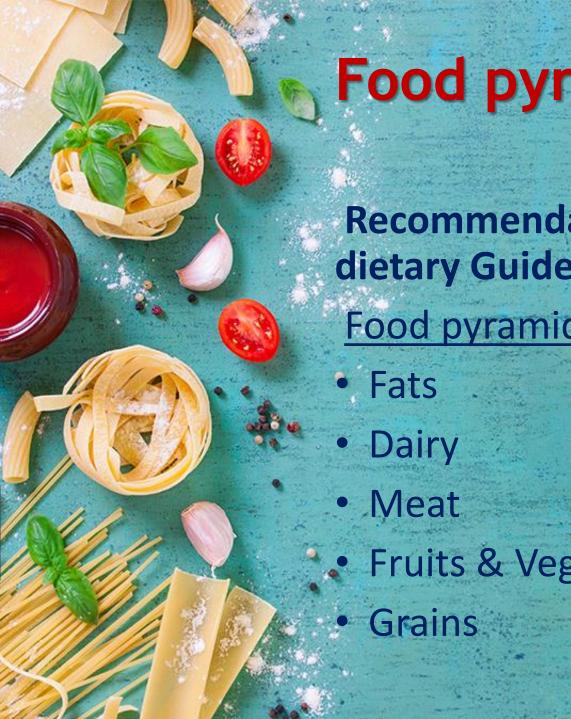
Nutrient intake below 70% of RDA are frequently considered to be the least RDA levels of nutrients below which put an individual at risk of clinical deficiency.



The Food Pyramid

A food pyramid or diet pyramid is a pyramid-shaped diagram representing the optimal number of servings to be eaten each day from each of the basic food groups. The first food pyramid was published in Sweden in 1974.





Food pyramid:

Recommendation of what to eat based on dietary Guidelines.

Food pyramid from top to bottom:

Fruits & Vegetables

SERVING SIZE

A serving size: is the suggested amount of food or beverage to consume at a meal or in a snack.

Serving sizes help to regulate the amount of calories consumed each day; they also encourage eating a wide variety of foods to completely meet nutritional needs.

Fats, Oils & Sweets USE SPARINGLY



Milk, Yogurt & Cheese Group 2-3 Servings



Meat, Poultry, Fish, Dry Beans, Egg & Nut Group 2-3 Servings

Vegetable Group 3-5 Servings



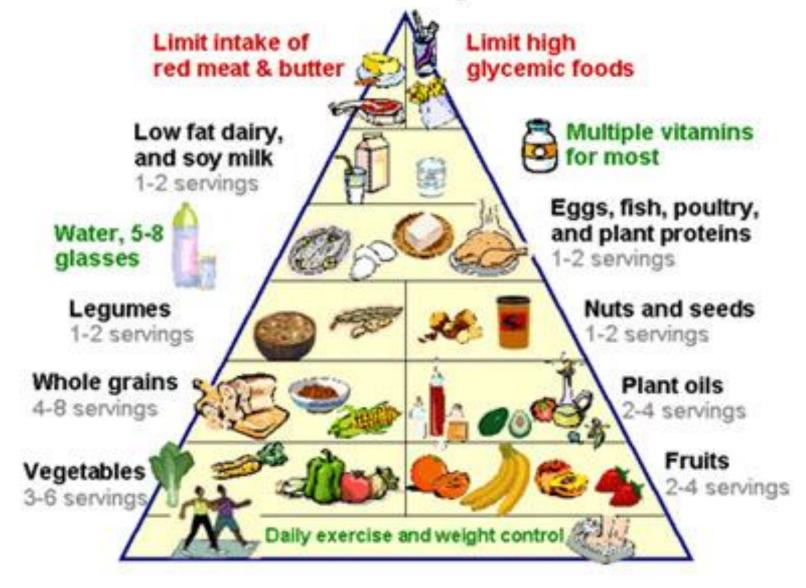


Fruit Group 2-4 Servings



Bread, Cereal, Rice & Pasta Group 6-11 Servings

New Food Pyramid





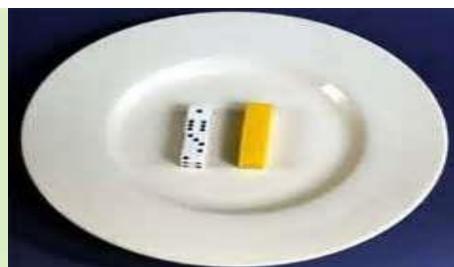
The food from MILK GROUP, are a major source of calcium, Protein & riboflavin. [2-3 servings/day].

Milk Group

Aim for 2-3 cups of dairy products a day, Serving sizes include 1 cup milk, 1 cup yogurt.

Take some dice to get an idea of the serving size for cheese: 1 oz. of cheese is the size of four dices





Items in the MEAT GROUP supply protein, fat, iron and other minerals as well as several vitamins, (dry beans, eggs& nuts group). [2-3 servings/day]

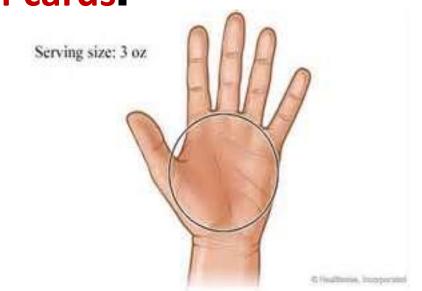


Meat Group (2-3) Servings

The recommended daily intake of meat or other protein equivalents ranges from 6 to 9 oz. a day based on gender, age and calorie needs.

Three ounces(serving size) of meat is approximately the size of the palm of hand or a deck of cards.





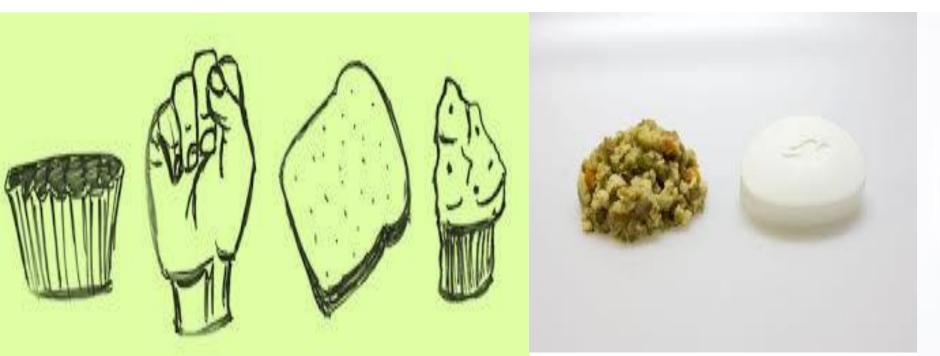
BREAD & CEREAL GROUP

Provide carbohydrate, several B vitamins & iron. {6-11 servings/ day}

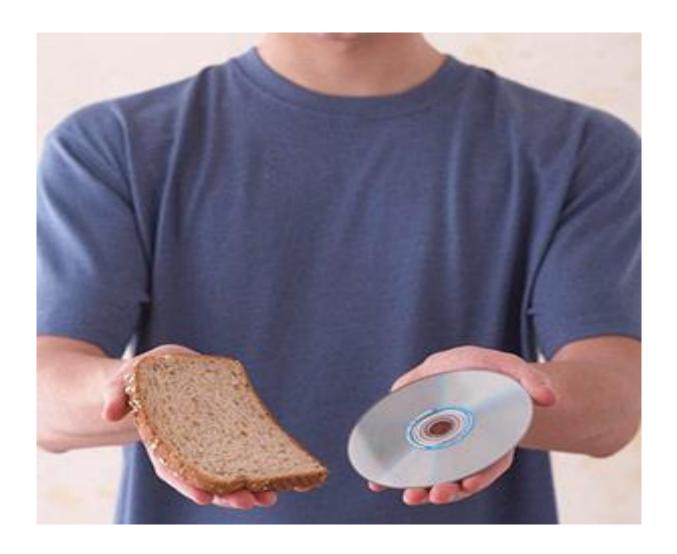


Bread and cereal group

Some examples of serving sizes include, 1/2 cup cooked rice which is about the size of a tennis ball, a slice of bread the size of an audio-cassette tape, and a cup of pasta/spaghetti or cereal, both about the size of a fist.











Fruits & Vegetables

Are rich in vitamin C & precursors of vitamin A.

Vegetables group[3-5 servings/ day]
Fruit group [2-4 servings/ day].

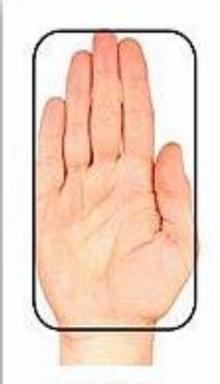
Fruits and Vegetables

Eating a diet rich in fruits, vegetables and whole grains is important to maintaining good health.

A tennis ball is a good visual for one medium piece of fruit.

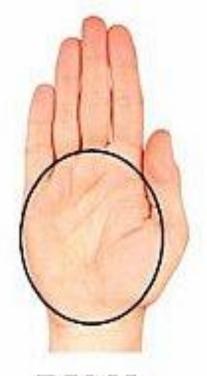
A serving of cooked vegetables is 1/2 cup while a serving of raw leafy vegetables is 1 cup.





HAND:

Breads



PALM:

Meats



FIST:

Veggies, Rice, Pasta, Fruits



FINGERTIP:

Fats (butter)

@ Grand-Slam-Weight-Loss-Tips.com 2012

SIZE IT RIGHT

A guide (based on standards that most nutritionists follow) to what one serving should look like.

