

Life Sciences: Introduction to Nutrition Cheat Sheet by vweiss via cheatography.com/163743/cs/34432/

Definitions	
Nutrition	the study of how food nourishes the body
Food	any substance the body can take in and assimilate; a source of nutrients
Diet	the food and beverages a person usually eats and drinks
Genome	the full complement of genetic material in the chromosomes of a cell
DNA	the molecule that encodes genetic information in its structure
Nutrit- ional genomics	the science of how nutrients affect the activity of genes and how genes affect the activity of nutrients
Energy	the capacity to do work; energy that fuels the body comes indirectly from the sun via plants; measured in Calories
Nutrients	components of food required for the bodys functioning; roles include providing energy, building material, maintenance and repair, and supporting growth; ie: water, carbs, fat, protein, vitamins, minerals
Essential nutrients	nutrients that the body cannot make or cannot make fast enough, from other raw

Definitions (cont)		
Calories	unit of energy; amount of heat energy needed to raise the temperature of 1 kilogram of water	
Gram	unit of mass; food and nutrients are often measured in grams	
Elemental Diet	composed of purified ingredients of known chemical composition; intended to supply all essential nutrients to people who cannot eat foods; they are not superior to real food, dont enable people to thrive over long periods, dont support optimal growth and health, can cause medical complications	
Nonnut- rients	compounds other than the six nutrients present in food that have biological activity in the body	
Phytoc- hemicals	nonnutrient compounds that confer colour, taste, and other characteristics on foods	
Adequacy	the dietary characteristic of providing all of the essential nutrients, fibre, and energy in sufficient amounts to maintain health and body weight	

Definitions (cont)		
Balance	the dietary characteristic of providing foods of a number of different types in proportion to each other, such that foods rich in some nutrients do not replace foods that are rich in other nutrients	
Calorie control	control of energy intake	
Moderation	the dietary characteristic of providing constituents within set limits; nothing in excess	
Variety	the dietary characteristic of providing a wide selection of foods	
Cuisines	styles of cooking	
Foodways	sum of a cultures habits, customs, beliefs, and prefer- ences concerning food	
Ethnic foods	associated with a particular cultural subgroups within a population	
Nutritional assessment	includes an individuals health and diet history, anthropometric measur- ements, laboratory test data	
Registered dietitian	indicates a qualified nutrition expert	



By vweiss

materials

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Glossary of Food Types

Why do people choose foods?

Positive associations

Region of country

Social pressure

Values or beliefs

Weight

Nutritional value

Benefits of Physical Activity

Increased cardiovascular endurance

Increased muscle strength and endurance

Increased flexibility

Reduced risk of cardiovascular diseases

Reduced risk of type 2 diabetes

Reduced risk of cancer, especially colon and breast

Feeling of vigour

Feeling of belonging and companionship

Improved mental outlook and lessened likelihood of depression

Improved mental functioning

Improved bone density

Strong self-image and belief in ones abilities

Reduced body fat and increased lean tissue

Youthful appearance, healthy skin, and improved muscle tone

Increased independence in the elderly

Sound, beneficial sleep

Faster wound healing

Lessening of menstrual pain

Improved resistance to infection

Calorie Values

carbs	4cal/g
fats	9cal/g
protein	4cal/g

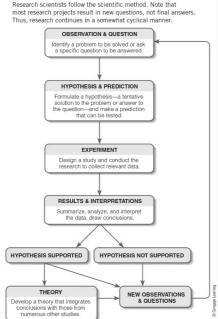
Acceptable Nutrient Ranges

carbs	45-65%
fats	20-35%
protein	10-35%

The Scientific Method

Figure 1-3

Research scientists follow the scientific method. Note that



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Canadas Food Guide Dietary Guidelines

Summary of Nutrition Recommendations in Canada's Food Guide

Along with recommending that we "Eat a variety of healthy foods each day" from the three food categories in the Food Guide that will allow Canadians to obtain the neces nutrients that contribute to overall health (including a healthy body weight) and vitali help reduce the development of chronic diseases, it also. Recommends that we "Eat well. Live well." in the following ways:

"Eat a variety of realthy foods each day"

Make water your drink of choice"

Limit foods and beverages high in

- Calories

- Fat

Sursa (factories)

- neatiny food choices

 Recommends that we replace saturated fats with unsaturated fat

 Recommends that we read and compare food labels including the Percent Daily Values

 to help us make informed and wise food choices; for example, those that contain less

 Saturated fat

 7rans fat

 Sugar

 Sodium

Source: Adapted from Canada's Food Guide, 2019

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Nutrient Recommendations

Nutrient Standards

Standards from the DRI Committee

Dietary Reference Intakes (DRI) a set of five lists of nutrient intake values for healthy people in Canada and the United States. These values are used for planning and assessing diets:

- recommended dietary allowances (RDA) nutrient intake goals for individuals; the average daily nutrient intake level that meets the needs of nearly all (97% to 98%) healthy people in a particular life stage and gender group.⁴ Derived from the estimated average requirements (EAR; see below).
- adequate intakes (AI) nutrient intake goals for individuals are set whenever scientific data are insufficient to allow establishment of an RDA value; the recommended average daily nutrient intake level based on intakes of healthy people (observed or experimentally
- derived) in a particular life stage and gender group and assumed to be adequate.^a estimated average requirements (EAR) the average daily nutrient intake estimated to meet the requirement of half of the healthy individuals in a particular life stage and gender group; used in nutrition research and policymaking and the basis upon which RDA values are set.
- 4. tolerable upper intake levels (UL) the highest average daily nutrient intake level that is likely to pose no risk of toxicily to almost all healthy individuals of a particular life stage and gender group. Usual intake above this level may place an individual at risk of illness from nutrient toxicity.
- chronic disease risk reduction (CDRR) a new DRI category based on chronic disease risk; for example, keeping the sodium intake below the CDRR is expected to reduce the risk of for example, keeping the sodium intake below the CDRR is expected to reduce the risk of chronic disease for the otherwise healthy population, while intakes above it will increase risk
- acceptable macronutrient distribution ranges (AMDR) values for carbohydrate, fat, and protein expressed as percentages of total daily caloric intake; ranges of intakes set for the energy-yielding nutrients that are sufficient to provide adequate total energy and nutrients while reducing the risk of chronic diseases.

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Research Design Terms



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