Cheatography

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

Definitions		Definitions	(cont)	Definitions (c	ont)
Nutrition Food	the study of how food nourishes the body any substance the body can take in and assimilate; a source	Calories	unit of energy; amount of heat energy needed to raise the temperature of 1 kilogram of water	Balance	the pro of c pro
Diet	of nutrients the food and beverages a person usually eats and drinks	Gram	unit of mass; food and nutrients are often measured in grams		suc nut foo
Genome	the full complement of genetic material in the chromosomes of a cell	Elemental Diet	composed of purified ingred- ients of known chemical composition; intended to supply all essential nutrients to people who cannot eat foods; <i>they are not superior to real</i> <i>food, dont enable people to</i> <i>thrive over long periods, dont</i> <i>support optimal growth and</i> <i>health, can cause medical</i> <i>complications</i>	Calorie control	nut cor
DNA	the molecule that encodes genetic information in its structure			Moderation	the pro set
Nutrit- ional genomics	the science of how nutrients affect the activity of genes and how genes affect the activity of			Variety	the pro foo
	nutrients			Cuisines	sty
Energy	the capacity to do work; energy that fuels the body comes indirectly from the sun via plants; measured in Calories	Nonnut- rients	compounds other than the six nutrients present in food that have biological activity in the body	Foodways	sun cus enc
				Ethnic	ass
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,		nonnutrient compounds that confer colour, taste, and other characteristics on foods	foods	culi pop
		nonnoulo		Nutritional	inc
		the dietary characteristic of providing all of the essential nutrients, fibre, and energy in	assessment	hea ant em	
Essential	protein, vitamins, minerals nutrients that the body cannot		sufficient amounts to maintain health and body weight	Registered dietitian	indi exp
nutrients	make or cannot make fast enough, from other raw materials				

By vweiss

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expert

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

control of energy intake

the dietary characteristic of providing constituents within set limits; nothing in excess

the dietary characteristic of providing a wide selection of

sum of a cultures habits, customs, beliefs, and preferences concerning food associated with a particular

cultural subgroups within a

includes an individuals health and diet history,

anthropometric measurements, laboratory test data indicates a qualified nutrition

nutrients

foods

styles of cooking

population

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Glossary of Food Types				
Note that the set of this provides made and entitle factors, such	 advance does 1 nom taal like a legisl offention bad is share used			
made and an entity of the set of	in an investment of the second seco			

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



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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

The Scientific Method





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Canadas Food Guide Dietary Guidelines

	Table 1–8 Summary of Nutrition Recommendations in Canada's Food Guide
th nu	ong with recommending that we "Eat a variety of healthy foods each day" from the ree food categories in the Food Guide that will allow Canadians to obtain the necessary trients that contribute to overall health (including a healthy body weight) and vitality and lo reduce the development of chronic diseases. It also
	Recommends that we "Eat well. Live well." in the following ways:
	 "Eat a variety of healthy foods each day"
	 "Make water your drink of choice"
	 Limit foods and beverages high in
	– Calories – Fat
	 Fat Sugar (including that found in soft drinks, juices, and sweetened hot and cold drinks Sodium (salt) Alcohol
•	Provides numerous "directional statements" and "actionable tips" to help us make healthy 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
	Trans fat Sugar
	Sodium
	Provides advice on the relationship between energy intake and our level of physical activity

Adapted from Canada's Food Guide, 2019

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Nutrient Recommendations

Table 2-1 Nutrient Standards

Standards from the DRI Committee

Dietary Reference Intakes (DRI) a set of five lists of nutrient intake values for healthy peopl 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 toxicity 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.
- 5. 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 chronic disease for the otherwise healthy population, while intakes above it will increase risk
- acceptable macronutrient distribution ranges (AMDR) values for carbohydrale, fat, and protein expressed as percentages of total daily cabric intaker, nanges of intakes set for the energy-whelling nutrients that are sufficient to provide adequate total energy and nutrients while reducing the risk of chronic diseases. Daily Values

Daily Values (DV) nutrient reference standards used on food labels, in grocery stores (and on some restaurant menus and websites in Canada and the United States). The DV allow comparisons among foods with regard to their nutrient contents.

For simplicity, this book combines the two sets of nutrient goals for individuals (AI and RDA) and refers to hem as the DRI recommended intakes. The AI values are not the scientific equivalent of the RDA, however, Copyright © 2021 by Nelson Education Ltd.

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