

Health or Hype?

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Health or Hype?

#### For Teachers

#### Introduction

Dietary supplements such as vitamins, minerals and proteins can help a range of people in their everyday diets to maintain health and wellbeing. But what are supplements, who should be taking them and when should they be taken and avoided?

This program looks at the wide range of supplements currently available in the market and highlights groups such as the elderly, high performance athletes and pregnant women who may benefit from taking a supplement. The possible complications that may arise from taking supplements without proper medical advice is also explored.

### **Timeline**

00:00:00	Introduction
00:00:45	Which nutrients and why?
00:03:06	Who takes supplements and why?
00:07:32	Potential problems
00:10:14	Super-nutrient or not?
00:13:51	Overview
00:15:16	Credits
00:15:54	End program

#### **Related Titles**

Menu Planning - Toddlers, Pregnancy, the Elderly No Accounting for Taste - Why We Eat What We Eat Diet Related Disorders – Type 2 Diabetes, Obesity and Coeliac Disease All about Nutrients

### **Recommended Resources**

- http://www.who.int/nutrition/topics/en/
- <a href="http://www.nhmrc.gov.au/publications/subjects/nutrition.htm">http://www.nhmrc.gov.au/publications/subjects/nutrition.htm</a>
- <a href="http://www.betterhealth.vic.gov.au/bhcv2/bhcarticles.nsf/pages/vitamins\_and\_mineral\_supplements">http://www.betterhealth.vic.gov.au/bhcv2/bhcarticles.nsf/pages/vitamins\_and\_mineral\_supplements</a>
- <a href="http://www.helium.com/items/377768-the-benefits-of-dietary-supplements-for-the-elderly">http://www.helium.com/items/377768-the-benefits-of-dietary-supplements-for-the-elderly</a>
- <a href="http://www.nutritionaustralia.org/national/resource/physical-activity-and-supplements">http://www.nutritionaustralia.org/national/resource/physical-activity-and-supplements</a>
- http://nutra-smart.net/supplements.htm

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### Student Worksheet

# **Initiate Prior Learning**

1. Survey – Conduct an informal survey of five people (don't choose people in your class) to find out: if they take any supplements, what supplements they take, and the reason for taking supplements. Include the gender and age of the person you interviewed. Compile these results, then as a class discuss trends that you notice in the results.

2.	For each of the following essential nutrients identify two main food sources from where these can be obtained.			
	a) Protein			
	b) Carbohydrate			
	c) Vitamins			
	d) Minerals			
	e) Fats/oils			

3.	Using question 2 as a guide, research which nutritional diseases may in fact prevent someone from consuming a particular nutrient (e.g., carbohydrates come from breads and cereals and a celiac may not be able to consume those foods).
4.	Select a newspaper magazine that focuses on health/body/nutrition issues. Find an advertisement for a supplement and complete the following questions:  a) What supplement is being advertised?
	ay what supplement is being developed.
	b) What claims are made about the supplement's benefits?
	c) Who is the advertisement targeting as their customer?
	d) What techniques are used to encourage the consumer to purchase the product?

**Active Viewing Guide** 

5. Why do people take supplements?

1.	Where are supplements currently available?
2.	From where do we gain enough of the essential nutrients for our bodily needs?
3.	What is meant by the term supplement?

6.	Which nutrients are important for the mother and child during pregnancy?	
7.	What common supplements help the e	elderly maintain bone density and mobility?
8.	8. According to Tony Doherty, what three aspects are essential for any athlete?	
9.	9. What is the main reason why more international aid organisations are providing supplements to those in need?	
10		tial problems that can occur with supplements:
	Supplement	Potential problem
	Excessive use of Vitamin E	
	Excessive use of	Birth defects, liver, bone, skin and central nervous system disorders
	Excessive use of 'slimming' supplements	

11.What is a 'placebo effect'?	
12.What is the link between omega-3 an	d schizophrenia?
13.Complete this sentence:	
Supplements should never substitute	

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#### **Extension Activities**

- Create a day's menu for one of the people mentioned in the program who might need to take a supplement (elderly, pregnant woman, high performance athlete) – without the use of a supplement. Try to increase the nutrient required by incorporating specific nutrient-rich foods into the meals across the day.
- 2. Go to a supermarket or health food store website and price some of the supplements. Calculate the cost of taking any three supplements over the course of a year.
- 3. Class debate Is it justifiable to spend so much money on something that can, generally speaking, be obtained from food by simply eating healthily? Divide into two groups to prepare notes and your arguments. Stage a debate with your teacher as moderator.
- 4. Why do you think it is important to maintain an objective view when reading the information given by manufacturers that produce supplements? Discuss what information you believe should be on the packaging of supplements as a way of being as truthful about their effectiveness as possible.
- 5. Create your own print advertisement for a supplement. Your advertisement should include a product/company name, the supplement name, and what it does to improve health. Include at least one common marketing technique to sell your product (e.g., celebrity endorsement, catchy slogan, medical endorsement/claims, a free offer, etc.

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### Suggested Student Responses

# **Initiate Prior Learning**

1. Survey – Conduct an informal survey of five people (don't choose people in your class) to find out: if they take any supplements, what supplements they take, and the reason for taking supplements. Include the gender and age of the person you interviewed. Compile these results, then as a class discuss trends that you notice in the results.

**Answers will vary** 

- 2. For each of the following essential nutrients identify two main food sources from where these can be obtained.
  - a) Protein

Meat

Fish

b) Carbohydrate

Bread

Cereals

c) Vitamins

**Fruits** 

**Vegetables** 

d) Minerals

Meats

**Dairy products** 

e) Fats/oils

Nuts

Fish

3. Using question 2 as a guide, research which nutritional diseases may in fact prevent someone from consuming a particular nutrient (e.g., carbohydrates come from breads and cereals and a celiac may not be able to consume those foods).

Protein - vegetarians

Carbohydrates – celiac

Fats/oils - people with allergies, such as nut allergies

Vitamins -people with allergies or intolerance

Minerals - people with allergies or intolerance, such as lactose intolerance,

- 4. Select a newspaper magazine that focuses on health/body/nutrition issues. Find an advertisement for a supplement and complete the following questions:
  - a) What supplement is being advertised?
  - b) What claims are made about the benefit of the supplement?
  - c) Who is the advertisement targeting as their customer?
  - d) What techniques are used to encourage the consumer to purchase the product?

Answers will vary by class

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# **Active Viewing Guide**

1. Where are supplements currently available?

**Supermarkets** 

Health food stores

2. From where do we gain enough of the essential nutrients for bodily needs?

A balanced diet

3. What is meant by the term supplement?

Manmade form of nutrient which come in tablets, powders or liquids

4. Why do you think multivitamins are the most common supplements?

Answers may vary but could include:

General good health

Easiest form to take

Attempt to remain healthy

5. What makes us take supplements?

Aches and pains

Extra energy

People not sleeping well

Get a better performance in sports

6. Which nutrients are important for the mother and child during pregnancy?

**Folate** 

Iron

Calcium

Zinc

lodine

7. What common supplements help the elderly maintain bone density and mobility?

Vitamin D

Calcium

8. According to Tony Doherty, what three aspects are essential for any athlete?

Training

**Nutrition** 

Rest

9. What is the main reason why more international aid organisations are providing supplements to those in need?

To boost immune levels and supply essential nutrients for malnourished populations

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10. Complete the following table on potential problems that can occur with supplements:

Supplement	Potential problem
Excessive use of Vitamin E	Increase heart disease
Excessive use of Vitamin A	Birth defects, liver, bone, skin and central nervous system disorders
Excessive use of 'slimming' supplements	High blood pressure, nausea, heart failure

11. What is a 'placebo effect'?

A medication or treatment (even a false or ineffective one) appears to work simply because the recipient believes that it will work

12. What is the link between omega-3 and schizophrenia?

The fatty acids help to lower the metabolic and dietary acids that can cause psychosis such as schizophrenia

13. Complete this sentence:

Supplements should never substitute a diet rich in essential nutrients.