

The body needs six basic nutrients each day to remain healthy: carbohydrates, fats, proteins, vitamins, minerals, and water. Nutrients are chemical substances in food that provide fuel for energy, materials for building and maintaining body tissue, and substances that help regulate body functions.

People need large amounts of carbohydrates, fats, and proteins each day. Carbohydrates and fats are the body's main sources of energy. Simple carbohydrates are sugars. They enter the blood stream quickly and provide immediate energy. Complex carbohydrates, which are a long-lasting source of energy, are contained in foods such as rice, wheat, and oats. Fats are also a source of energy, and they help store vitamins in the body. Vitamins A, D, E, and K are stored in the body, primarily in the liver, for future use. Saturated fats can increase the level of cholesterol, a waxy substance that can accumulate in the blood vessels and cause heart attacks and strokes. Proteins build muscle, skin, cartilage, and hair. Some good sources of protein include lean meat, fish, poultry, dried beans, eggs, and nuts.

The body also needs vitamins and minerals each day. Vitamins help the body turn food into energy and tissue, while minerals aid growth and digestion. Vitamins B and C cannot be stored in the body. Instead they must be ingested every day. Minerals such as iron, calcium, and sodium help regulate chemical reactions in the body. Insufficient iron intake can lead to anemia, a condition in which the body does not produce enough blood cells. Calcium builds and maintains strong bones and teeth, while sodium helps maintain a balance in body fluids.

An adequate amount of dietary fiber is also essential. Fiber aids in digestion. Dietary fiber is found in wheat bran, cereals, and fresh fruits and vegetables.

Another important nutrient is water. Water regulates body temperature, contributes to the production of blood, aids in digestion, and helps remove waste from the body. People should drink one to two quarts of water each day.

Circle the letter of the correct ending for each statement.

- 1. Each day the body needs large amounts of
  - a. vitamins

- b. dietary fiber
- c. carbohydrates

- 2. Vitamins
  - a. help turn food into energy and tissue
- b. regulate body temperature
- c. provide quick energy
- 3. The substance that provides energy and helps store vitamins is
  - a. protein

b. calcium

c. fat

- 4. Dietary fiber
  - a. aids in digestion
- b. builds muscle
- c. makes blood
- 5. Lean meat, fish, poultry, dried beans, eggs, and nuts are good sources of
  - a. calcium

- b. protein
- c. carbohydrates

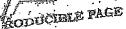
Name:	Class Period:	
	Nutrition Project	
nutrients in foods that proper nutrition in one	portant in our lives, and people should be informed about are consumed. Your task is to help educate your classres of 3 ways. You only need to choose one option to class. This project will be due on	mates on c <b>omplete</b>
Option I: R	ecipe Analysis	
Make a visual aAnalyze the nu calculator ro recipe aServings perCalorieFat perSugarsProteinMake the recip Remember, they onlyTell the class a	s per serving serving	nutrition smates. is healthy
Option 2: Ea	ating Disorder Research	
dosorder (with teachDefine what thList 10 facts toMake either aPresent it to th  Option 3: N	te eating disorder is and how common it is. It know about the disorder, with school appropriate visual PowerPoint, poster, or other visual with the information he class.  In the information are class.	ls. on it.
importance of vitami Fast food health fac own!Tell us aboutList 10 facts of	c and have it approved by your teacher. Possible topics ns, being a vegetarian, how the food pyramid works, foods, or the best foods for building muscle. Or, come up we the topic by writing a brief introduction or definition. In details about your topic, along with appropriate visuals intation of your choice- power point, poster, model, book the class.	od allergies, ith your s.

Name: Cl	lass Period:
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	Option I: Food Analysis			
Attribute	Description	Points Available	Points Awarded	
Visual Aide	Lists recipe ingredients and	10		
	instructions			
	Neatness and Creativity	10		
Nutrition Analysis	Servings per recipe	5		
	Calories per serving	5		
	Fat per serving	5		
	Sugars per serving	5		
	Protein per serving	5		
Recipe Preparation	Bring a sample to share	25		
	with the class			
Presentation	Healthy or unhealthy	15		
	Recommendation for eating	15		
	this food (Go food, slow	,		
	food, or whoa food)	,		
		Total Points	· •	

	Option 2: Eating Disorde	r Research	
Attribute	Description	Points Available	Points Awarded
Definition	What is the eating disorder and how common is it?	20	
Facts	10 Facts	.50 (5 points each)	
Visual Aide	Correct spelling and grammar	10	
	Creativity and neatness	10	
Presentation	Talk to the class about your topic	10	<u> </u>
		Total Points	
	Option 3: Nutrition F	Research	

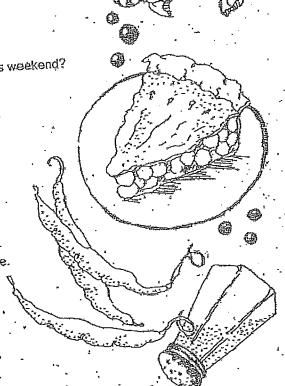
Option 3: Nutrition Research				
Attribute	Description	Points Available	Points Awarded	
Definition	What is your topic? How is it relevant?	20	n .	
Facts	10 Facts	50 (5 points each)		
Visual Aide	Correct spelling and grammar	10		
	Creativity and neatness	10		
Presentation	Talk to the class about your topic	10		
		Total points		



Find and circle the food or beverage that is hidden in each of the sentences.

Example: The bird could flap each wing.

- j like pepper on ice cream.
- The chick enlisted in the army. 2.
- Don't eat thail
- Bring umbrellas to school, please. 4.
- Climb under the chair. 5.
- Remember iye bread for mel 6.
- Must Ardith come with us? 7.
- Busy Rupert went to sleep. ₿.
- Are you going to the Ski-Winter Lodge this weekend? 9,
- You should come to a stop here.
- Manya made three drawings. 11.
- Will you meet me at the park? 12.
- He will be a nifty monster for Halloween. 13.
- Isn't Marc a keen guy? 14.
- See Tom at Ornn's house. 15.
- My gnu tried to go, too. 16.
- "Ha, ha," Mary laughed. 17.
- Grace, Cher, Ryan and Ed went with me. 18.
- That is all I'm ever going to say! 19.
- Amanda tried to be as cool as a gnat. 20.
- Phone your mam right now, Ruth. 21.
- Look at the cap I earned today. 22.
- Danny's altered suit fits perfectly now. 23..
- Can dye come out of a tablecloth? 24.
- Greg gets all the surprises!



Now you try! Write a sentence and "hide" a food within it! Let others try to find it. You can also write sentences that "hide" animals, colors or names.

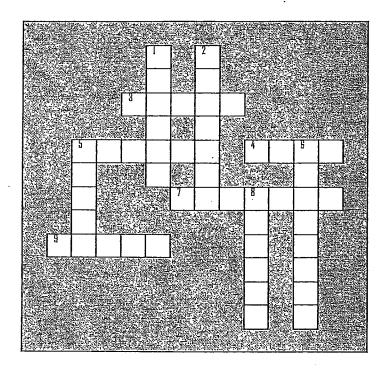
## NUTRIENTS & THE HUMAN BODY

NUTRIENT	WHY DOES OUR BODY NEED THIS NUTRIENT?	WHAT HAPPENS WHEN OUR BODY DOESN'T GET ENOUGH OF THIS NUTRIENT?	NAME 5 FOODS THAT CONTAIN THIS NUTRIENT?	WHAT BODY PART BENEFITS FROM THIS NUTRIENT?
Carbohydrate	Main fuel (energy) source for muscles to work. Only energy source for the brain. Fiber from grains helps digestion.	Low energy; tired and weak muscles; difficulty concentrating and learning; lowers immune system	Grains (pasta, cereal, rice, bread); Vegetables and Fruits (potatoes, carrots, banana); Milk and alternatives (milk, yogurt); legumes (baked beans, hummus)	Muscles; brain; immune system (in the blood)
Protein	Makes muscles, antibodies, hormones, hair, etc.	Lose muscle, lower immunity, poor growth	Meat and alternatives (chicken, tofu, eggs); Milk and alternatives (cheese, milk, yogurt); Grains also have a little protein	Muscles; hormones and immune system (in the blood); hair
Fat	Main fuel (energy) source for body at rest; carries vitamins in body; protects vital organs; keeps body warm	Dry, scaly skin; dry dull hair; poor growth	Meat and alternatives (beef, fish, eggs, nuts); Milk and alternatives (cheese, yogurt)	Skin; hair

### CARBOHYDRATES CROSSWORD PUZZLE

The following words are all food items that contain lots of healthy carbohydrates! Foods like these should make up half of your daily diet.

**TIP:** Use a pencil so that you can erase your answers easily if you have to change them.



#### **ACROSS**

- 3. Two slices for a sandwich
- 4. Lots of tiny white grains
- 5. Vegetable that can be mashed, roasted, fried...
- 7. Add hot milk to this for some porridge
- 9. Shaped like a donut, but much healthier

### **DOWN**

- 1. Breakfast food in a bowl
- 2. Usually eaten in "bar" form and often contains nuts
- 5. Dinner dish from Italy
- 6. Thin and crunchy snack squares
- 8. Do you know...the \_\_\_\_\_man? (He lives on Drury Lane!)

### **WORD BANK**

OATMEAL

MUFFIN

**GRANOLA** 

**CRACKERS** 

CEREAL

RICE

BAGEL

**BREAD** 

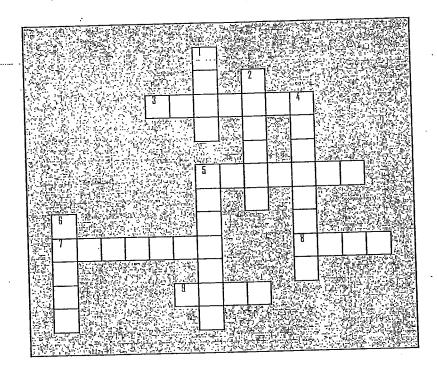
**POTATO** 

**PASTA** 

# FAT CROSSWORD PUZZLE

The answers to the following clues are all food items that are rich in fat. Some have a healthy amount of fat, while others do not. Foods like these should make up only a small part of your diet.

TIP: Use a pencil so that you can erase your answers easily if you have to change them.



#### **ACROSS**

- 3. Not floor-nuts or ceiling-nuts
- 5. Can be bright orange, or pale white
- 7. Smooth, creamy and with a giant pit
- 8. Sunnyside-up, over-easy, scrambled...
- 9. Ocean food for sandwiches

#### DOWN

- 1. Primary source of calcium
- 2. Made by churning fresh cream
- 4. Small, salty and often crammed into a can with oil
- 5. Brown and hairy on the outside, white on the inside
- 6. Fried breakfast food Careful not to eat too much of this!

### **WORD BANK**

**BACON** 

**SARDINES** 

MILK

**EGGS** 

**CHEDDAR** 

WALNUTS

**AVOCADO** 

TUNA

**BUTTER** 

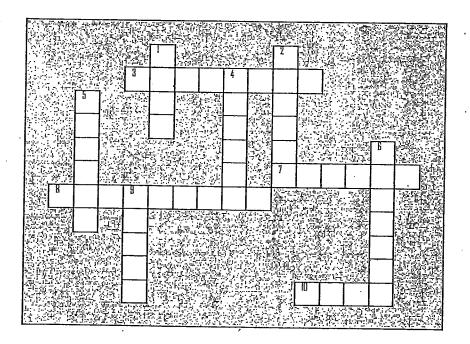
COCONUT

**BACON** 

## PROTEIN CROSSWORD PUZZLE

\*The following words are all food items that are rich in protein. Foods like these should make up about a quarter of your diet.

TIP: Use a pencil so that you can erase your answers easily if you have to change them.



#### **ACROSS**

- 3. Pig meat + Karate move
- 7. A Thanksgiving-must!
- 8. Sliced up and eaten in sandwiches
- 10. Boiled, fried, poached...

### **DOWN**

- I. A meat alternative popular with vegetarians
- 2. Eat this with granola and fruit for breakfast.
- 4. Comes in blocks or wheels, bright orange or white
- 5. Aquatic animal; lots of these in BC!
- 6. "Buy me some \_\_\_\_\_ and crackerjacks"
- 9. Rare, medium or well done

### **WORD BANK**

**PORKCHOP** 

**EGGS** 

**YOGURT** 

STEAK

**ROASTBEEF** 

**PEANUTS** 

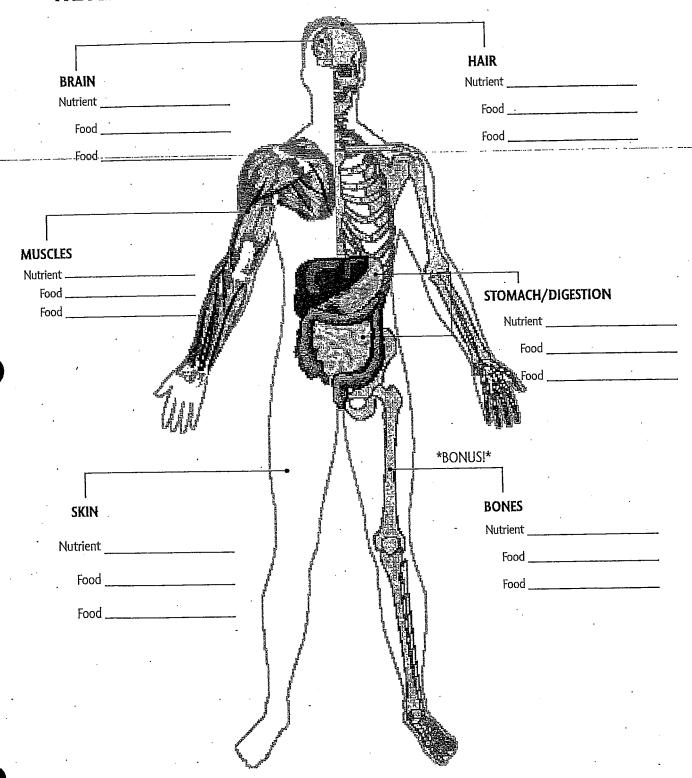
**SALMON** 

TURKEY

**CHEESE** 

TOFU

## HUMAN BODY



### BILL NYE NUTRITION VIDEO

1.	You are made of		•
2,	There are special things in food called		
3,	is where you get your energy.		
4.	What 3 things do you need from food to stay healthy?		
5.	come from fish, becas, and meat.		
. 6.	, skin, and hair are made from proteins		•
7	List 2 things fats are used for.		·
8,	are a measure of heat energy.	,	•
9	Food= amount of heat energy needed to ra	iseL of water	DC.
	. How many calories are in a banana?		
11	Minerals came from the Earth's	Do you	have to eat rocks to
	get minerals?Eat	instead]]]	is a minerol,
	it's a nutrient, that you get from your food. You need	for your	blood cells and
	YOUR		
12.	The amount of iron you need every day is	•	
13.	Broccoli has the mineral i		,
14.	What 3 minerals are found in an apple?		
			•
15.	fats are solid fats.		
16.	What foods contain carbohydrates?		•
17,	If you eat things made from animals like milk, eggs, and meat y	ou are getting what ar	e called
	proteins. These are proteins your	body doesn't make for	itself,
18.	Fruits and vegetables do not have complete proteins but if you	ı eat certain plants togi	ther they have
	proteins that can be eaten toget		
.19	Two examples of complimentary proteins are:	&	and
	å		
20.	Your body needsml of fat a day.		
	provide you with protein, minerals, and	fiber	•
	What are "empty calories"?	g wet g	
	What foods contain tiber	•	

### **Reading Food Labels**

Learning to read food labels will help you choose more healthful foods. Food labels contain information about the amount of fat and calories per serving, and the nutritional value of the food in relation to the recommended total daily diet. Food labels also tell you how many servings there are in the container and how large each serving is. The percent daily values are based on a daily diet of either 2,000 or 2,500 calories. You can decide whether or not to eat the food based on your daily calorie goals and the percent daily values of fat, sodium, and other nutrients.

NUTRITION FACTS Serving Size 1/2 cup (112g) Servings Per Container 4		
Amount Per Serving Calories 200 Calories from Fat 90		
Total Fat 10g Saturated fat 5g Cholesterol 20mg Sodium 360mg Total Carbohydrate 24g Dietary fiber 4g Sugars 10g Protein 4g	% Daily Value* 15% 25% 7% 15% 15% 9 8% 16%	
Vitamin A 0% • Calcium 0% •	Vitamin C 0% Iron 0%	
*Percent Daily Values are t	pased on a 2,000 calorie diet.	

1.	If a person ate all the food in this container, how many servings and calories would he or she consume? servings calories
2.	What percent of the total fat in this food is saturated fat?
3.	What percent daily value of vitamin C is in this food?
4.	Is this food a source of dietary fiber?
5.	How much protein is there in three

servings of this food?

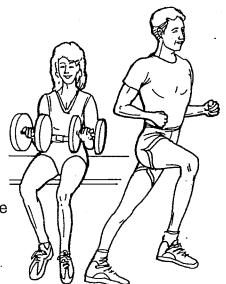
Food labels list ingredients in decreasing order by quantity. For example, if flour is listed first, this means there is more flour in the food than any other ingredient. Some labels list sugar in its various forms (sucrose, fructose, and/or glucose). This can make it look like the product contains less sugar than it actually does.

INGREDIENTS: WHOLE WHEAT, WHEAT BRAN, SUCROSE, HIGH FRUCTOSE CORN SYRUP, SALT, MALT SYRUP, ANNATTO, TURMERIC, ASCORBIC ACID (VITAMIN C), REDUCED IRON, ALPHA TOCOPHEROL ACETATE (VITAMIN E), NIACINAMIDE (NIACIN), ZINC OXIDE, VITAMIN A.

		1	
6.	Which ingredient in the list is present in the largest amount?	<u> </u>	
7.	Does this food contain sugar? Explain.		•
g	Which ingredient in the list is present in the smallest amount?		

### **Exercise**

Regular exercise can help you live a longer, healthier life. Exercise is beneficial in many ways. Endorphins, substances in the brain that help reduce pain and stress, are released during and after exercise, making you feel relaxed and happy. Exercise also helps muscles and joints grow stronger and bones grow thicker. Thicker bones reduce the risk of fractures and a debilitating disease called osteoporosis, which sometimes develops as a person ages. When you exercise regularly, your heart pumps blood more easily and your lungs work more efficiently. Exercise can also help regulate cholesterol levels, control stress, and maintain body weight. When combined with a healthy lifestyle, exercise may help protect against cancer and heart disease.



An exercise program should include both aerobic activity and strength training. Aerobic exercise, such as jogging or swimming, helps the body use oxygen more efficiently. Aerobic exercise also burns calories and strengthens the heart. Strength training, such as weight lifting, builds muscles and strengthens bones. Of course, before beginning any exercise program, a person should consult a physician.

When exercising, one should begin with a five minute warmup period to increase blood flow and prepare joints and muscles for harder exercise. Exercise should end with a five minute cool down period, which helps slow the heart rate and reduce body temperature. It is best to exercise for thirty minutes at least three times a week.

1.	What happens during and after exercise that affects your state of mind?
٠	
2.	What are the physical benefits of exercise?
	•
3.	Explain why an exercise program should include both aerobic activity and strengt training.
4.	Design a weekly exercise program that you can follow. Continue writing on the back of this page.
•	

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CARBOHYDRATE:

### YOU ARE WHAT YOU EAT

V Z W X Z B S V A G N M E T C H Y O G U A R T W B P AVXVEEBNYCM HMI 0 u N N K IRSMKGPGZB ΚLΙ D BZWLI D 5 FMTL E KDLTKAL U E · M MH 5 Т BQF Z JOGS NWSFWE YWB E S C X M FSBK ZHTURE ΝV BTA R QZCRFF WWAXZGT HY ENNRYGDOEVE G BHVLGU Н HYEI 0 A A HQZR FFGFCMF ZT OBR СВ Z λH G G X D YG Ν Z. UMKP GQHQ X Ε ΖN HKWQBA D PXG FSL WC CA Q D Н DSD Ε HEI CFP SCBNARB PFW PVEMEWL PSBV R M U В ONE D.L OCE ZMCCFTK MNP PE R  $0 \vee 1$ Μ KZMBLB SOCY E E H KJN COEZOR  $u \times c$ 5 Z A R E ΕV RCMZNCL QUUKUDS R 1 JGEJLOT В Ε V 1 A S AEEFCULUESHMQGKXL MKUJHSXZBCSLSASNKYE AOAXYI

PROTEIN FATS WATER MINERALS VITAMINS VITAMIN SIUNSHINE CALCIUM ZINC IRON FIBER MUSCLES BRAIN TOFU CALORIES BREAKFAST FRUITS **VEGETABLES** ENERGY LITRES GLASSES GREEK YOGUART SIMPLE COMPLEX SLEEP