

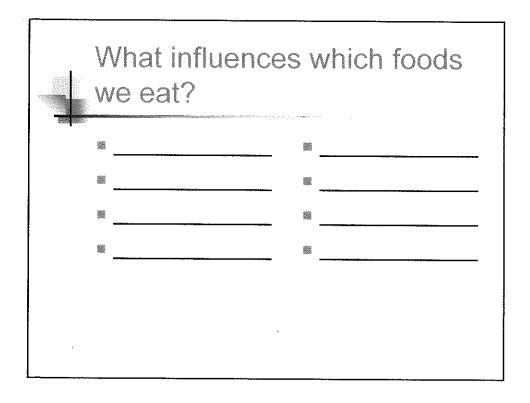
Nutrition

Mr. Bliss 7th Grade Health



Why do we NEED food?

- To build, repair, and maintain body tissues
- To regulate body processors (i.e. digestion and metabolism)



6 Main Nutrient Groups
CarbohydratesFats
Minerals
Water



ENERGY in food

- ENERGY is measured in _____.
- A calorie is a unit of energy produced by food used by the body.
- Diet
 - The ____ and ___ that we choose to consume on a daily basis.



Nutrients

All Substances in food that our body needs to stay alive.



The process of taking in food the



body needs to grow, develop and work properly.



Carbohydrates

- Main source of _____for the body
- Includes SUGARS, STARCHES, AND FIBER
- Supply ___ calories of energy per (1)gram
- Excess carbs are stored as fat.
- %____ %___ of caloric intake should be from Carbohydrates.



Quick Math

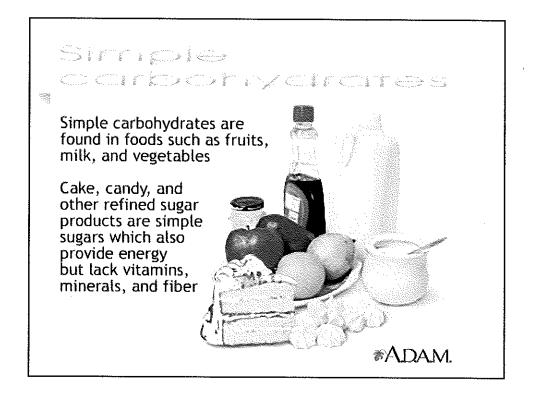
- If you are taking in 2,000 calories a day and you want carbohydrates to be compile %60 of those calories, how many calories of carbs are you taking in?
- How many grams of carbs are you taking in?

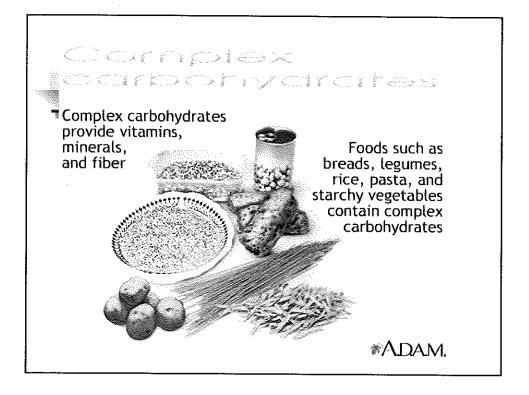
Sources:	
	Rice
Beans	Bran
Potatoes	Popcorn
<u> </u>	
■ Breads	

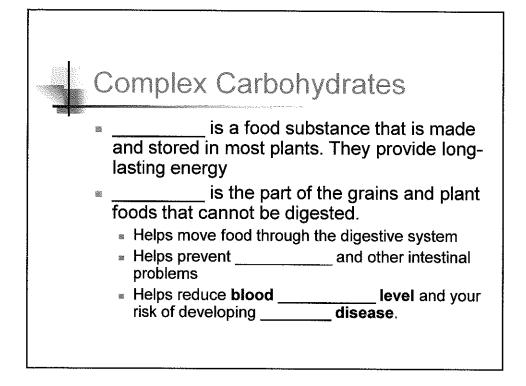
2 Types of Cark	ohydrates
Carbs	Carbs
Sugars that enter the blood rapidly and provide energy Sugars from fruits, honey, and milk	 Starches and, such as bread and pasta, and vegetables, such as potatoes and beans.

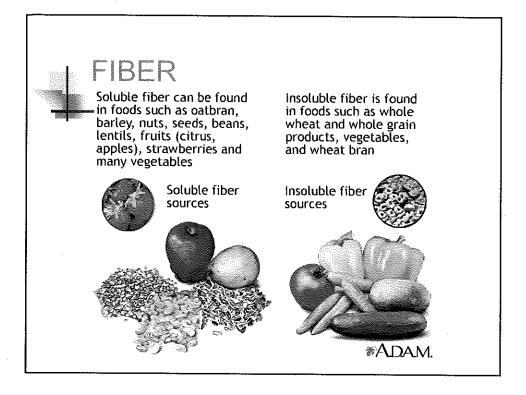
SUGAR	
	ICANS CONSUME BS OF SUGAR EACH
MUCH IS FOODS	IN
CAUSES HEA AS	ALTH PROBLEMS SUCH . EXCESS
AND	<u>,</u> LXOLOO

AVOID EXCESS











So, Why do we need Carbs?

If a diet is lacking carbohydrates, the body then turns to proteins for ENERGY and the protein <u>cannot</u> be used for its other roles.

|--|

PROTEINS

- A nutrient that is needed
 - For _____
 - To _____, and maintain body tissues
 - To regulate body processes
 - To supply energy
- Supply ___ calories of energy per 1 gram of food



Proteins

- A daily diet deficient in proteins may ____ growth, affect the development of certain tissue, and affect your mental development
- Excess protein is burned as energy or
- %____-%___ of caloric intake should be from Proteins.



2 Kinds of Protein

- Complete
 - A protein that contains all the essential amino acids; come from sources.
 - are the building blocks that make up proteins
 - AA's are the ____ amino acids the body cannot produce (there are 20, your body makes 11)
 - Examples: meat, fish, poultry, milk, yogurt, and eggs
 - The soy bean is the only plant food that provides all nine of the essential amino acids



2 Kinds of Protein

- Incomplete
 - Protein from ____ sources
 - Fall into 3 categories
 - Grains (whole grains, pastas, and corn)
 - Legumes (dried beans, peas, and lentils)
 - Nuts and seeds



FATS

- Provide energy and helps the body store and use
- One gram of fat supplies ____ calories
- Fats store and transport fat-soluble vitamins
- is a vitamin that dissolves in fat and can be stored in the body
 - Vitamin ___, ___, and ___



FATS

- The body needs fats to maintain body heat, ____and ___ vitamins, and maintain an energy reserve, and build brain and nerve cells
- %___ of caloric intake should come from Fats.

http://abcnews.go.com/Health/HeartDiseaseLivingWith/story?id=4223144



2 Types of Fats

- Saturated
 - From dairy products, solid vegetable fat, and ____and poultry
 - Usually ____ at room temperature
 - Should be _____ because it contributes to the level of cholesterol in a persons blood



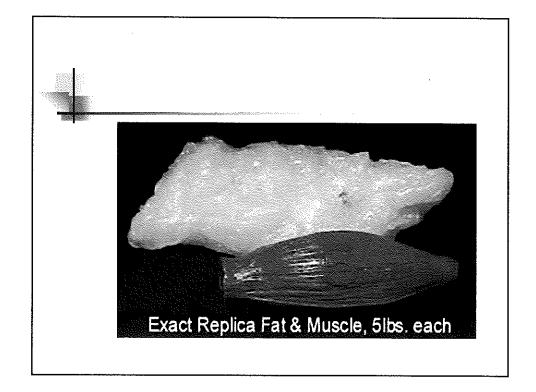
Type of Saturated...

Tran saturated (Tra	ans) fat-	made wher
manufacturers add		to the
	in veget	able oils.
Food stays	longer.	Found in
, crackers, b	akery go	ods,
Just a	ıs bad a	s saturated
fat!		
	Food stays, crackers, ba Just a	Food stayslonger, crackers, bakery go Just as bad a



2 Types of Fats

- Unsaturated
 - Obtained from _____ products and fish
 - Usually _____ at room temperature
 - Example ____and vegetable oil
 - Two types
 - Polyunsaturated- sunflower, corn, and soybean oils
 - Monounsaturated- olive and canola oils



VITAMINS	
■ Helps the body with a of	
■ Fat-soluble	
■ Vitamin,, and	
■ Arein the body's fat	
Water-soluble	
Vitamin (helps fight common cold, B, Niacin,, and Folacin	
■ be stored in the body!	
See "Table 2: Major food sources of water-soluble foods"	



Minerals

- Substances that the body uses for a variety of reasons such as...
 - Form healthy ____ and ____
 - Keep ____healthy
 - Keep _____ and other organs working properly

	MINERALS
	Builds strong and Phosphorus Fluoride Helps build
誠	Potassium - Helps maintain your bodies balance



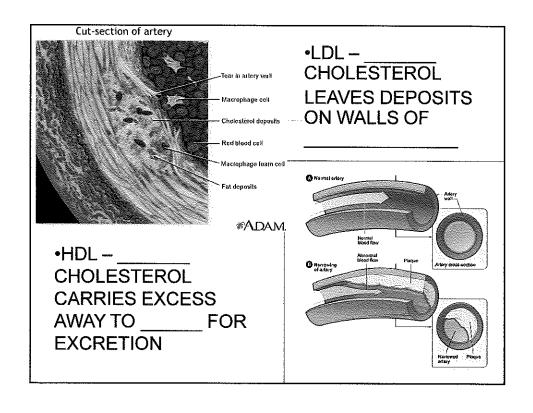
What's the Difference???

- **■** Vitamins
- While cooking, vitamins are easily destroyed because of heat or chemical agents.
- DESTRUCTABLE

- Minerals
- Are not vulnerable to heat, chemical reactions or sunlight.
- INDESTRUCTABLE

SODIUM
ONLY NEED ABOUTTHAN ONE- THIRD OUNCE () EACH DAY FOUND IN MOST FOODS WITHOUT ADDING ANY ADDITIONAL SALT TO YOUR FOODS
■FOOD CONTAIN HIGH AMOUNTS
■ TOO MUCH LEADS TO HEALTH PROBLEMS such as

	CHOLESTEROL		
î	body and in certain foods Cholesterol in food is called		
88	cholesterol Dietary cholesterol is found in foods of origin, such as meats and		
	dairy products		



	WATER
臘	THE NUTRIENT
#	MAKES UP ABOUT 60% OF THE BODY
鹽	CARRIES OTHERTHROUGH THE
	BODY, HELPS IN, REMOVES WASTE
	FROM THE BODY, JOINTS, AND KEEPS BODY FROM
羅	MUST BE CONSTANTLY REPLACED
쬹	IS A SIGN OF DEHYDRATION
	CANNOT LIVE MORE THAN
	WITHOUT IT
**	ALL THE BODY NEEDS (OZ PER DAY) BETTER THAN OTHER DRINKS

C	AFFEINE			
	CHEMICAL FO			HAT
\$	TOO MUCH M	IAKES YOU FORMIN		AND
	SMALL AMOU OKAYNOT GROWING	-	CHOICE	_ARE FOR

NUTRIENT DENSITY
FOODS THAT CONTAIN AMOUNTS OF NUTRIENTS (vitamins & minerals) RELATIVE TO THE NUMBER OFTHEY PROVIDE
Examples: Lean meats,, poultry, legumes, fruits,



Antioxidants

Antioxidants- protect				
from damage caused by norma				
process & certain cancers.				
(vitamins & are 2 of the most				
powerful)				

hapter 10 Person	nal Invent	o ry
dealthy Mealtime there is more to mealtime that ors also influence the health or reparation of your food. Complete each statement below. completed the statements.	an just enjoying what yo of your digestive systen	n: how you eat and the safe
My favorite meal of the di because		<u>-</u>
2. I drink these beverages w	vith my meals	
3. On an average day, I spends breakfast lunch dinner 4. The people I eat my meal		g each meal:
5. I usually eat meals while	e sitting	·
6. If I prepare a meal, I hand	dle food safely by	
Read through your answers. Explain which habits could	. Which of your habits of use improvement.	o you think are good ones?

Name	Class	Date
Chapter 9	sonol Invent	OF WELL Y
Food Choices	,	
	.d.l	
	ed by many things, including real kinds of foods do you choo	
Compact and but the fitting	veiow. I nen, answer the question	se in different situations?
1. When I am home sic	ck with a cold,	· ·· joiloù,
I usually eat		•
2. When I eat out with		· ·
I usually eat		
3. When I am in a hurr		
I usually eat		•
4. When I have plenty		
I usually eat		•
5. When I eat lunch at s	school.	
6. When I eat lunch at I		
I usually eat	-	
7. When I am bored or		· · · · · · · · · · · · · · · · · · ·
I usually eat	-	•
8. When there is a speci		,
I usually eat		
9. When I have an impo	ortant test or game the next day	
I usually eat	realities of game the next day	y,
low do different situation	end in the tree of game the next day	
to the amines carre satisfaction	ons influence your food choice	s?
13		
to any of your food choice	ces reflect your family backgro	ound or traditiones was a
nes?	, ,	- at maginorial MAUICH

CARBO CHARGED (DN-12)

Carbohydrates are starches and sugars that come mainly from plant food. Carbohydrates provide the body with much of the energy it needs each day. There are two types of carbohydrates: COMPLEX, or starches, and SIMPLE, or sugars.

DIRECTIONS: Fill in the words below to give some examples of some complex and simple carbohydrates. 7

Complex Carbohydrates:

- 1. ___S ____
- 2. __T _
- 3. _A ___
- 4. _ R _ _ _
- 5. C ____
- 6. ____H ___
- 7. ___E ___
- 8. ____S



CLUES

- 1. Type of cooked potato
- 2. Type of pasta
- 3. Type of cooked potato
- 4. White, wheat, rye, etc.
- 5. Found on pizza, bread, rolls, etc.
- 6. Type of pasta
- 7. Type of whole-grain bread
- 8. Hard, dinner, crescent, etc.



CLUES

- 1. 7-Up, Coca-Cola, Mountain Dew, etc.
- 2. Refined, sweet substance found in the home
- 3. Kind of jelly
- 4. Kind of syrup
- 5. Fruit sugar
- 6. Milk sugar

Simple Carbohydrates:

- 1. S ____ -___
- 2. ____ _U ___
- 3. G _____
- 4. __A ____ 5. __R _____
- 6. ____S_

FAT FACTS (DN-14)

DIRECTIONS: Find the letter that matches the number and fill it in on the blank line. Read the information about fat in the diet and discuss.

A B C D E F G H I J K L M
1 2 3 4 5 6 7 8 9 10 11 12 13

N O P Q R S T U V W X Y Z
14 15 16 17 18 19 20 21 22 23 24 25 26

The building blocks of fats are $\frac{}{}$ $\frac{}{}$ $\frac{}{}$ $\frac{}{}$ acids. There are three types: monounsaturated, polyunsaturated, and ____ _. Fats that remain 19 1 20 21 18 1 20 5 4 at room temperature are either monounsaturated or polyunsaturated. Some examples of polyunsaturated fats include oils made from _____ 3 15 18 14 3 15 18

cottonseed, and

19 15 25 2 5 1 14

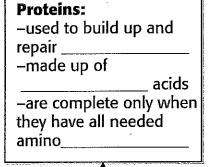
cottonseed, and

19 5 19 1 13 5 . Monounsaturated ___ , canola, avocado, and ___ _ 15 12 9 22 5 16 5 1 14 21 20 More harmful because they cause the _ _ ___ to produce too much 12 9 22 5 18 are saturated fats, which remain 3 8 15 12 5 19 20 5 18 15 12 or semisolid at room temperature. Shortening and margarine are examples and are also referred to as hydrogenated or partially hydrogenated. Many _ ___ products are high in 5 5 6 , pork, lamb, butter, _____ 23 8 15 12 5 saturated fats, such as products from whole milk. Palm, palm-kernel, and 3 15 3 15 14 21 20 in saturated fats. It's best to $\frac{}{}$ $\frac{}{}$ down on $\frac{}{}$ $\frac{}{}$ the fats and oils we eat to lower our risk of disease. 1 18 20

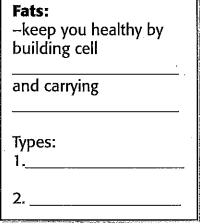
Concept Mapping Activity 4-1

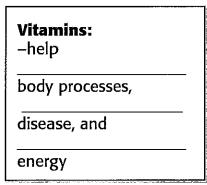
Directions: Complete the concept map on nutrients, using terms and phrases from your textbook.

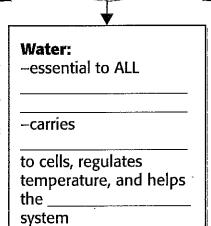
iu piirases iroin your t	CA
Carbohydrates: your body's main	
of	_ `
Types:	
1. simple:	
2. complex:	-
3. fiber: the body cann	ot
break down	



Nutrients: substances in food that help you stay healthy







Guidelines for Good Nutrition: 1. Eat a variety of		_ every day.
2. Do not fill up on foods that are high in	and	·
3. Match how active you are with the		
to balance the food you eat. 4. Read the		label that
is on all packaged food and make healthy cho	ices about wha	



Enrichment Activity 4-2

Healthy Eating

Directions: Read the following descriptions of people and their eating habits. In the space provided, write your recommendations for them. (1) Be sure to be specific about how each person can improve his or her eating plan in terms of the food groups. (2) Explain the changes this person must make, considering the influences on their food choices. (3) Indicate the calorie need for each person.

1. Mary is 15 years old. Her parents work late and seldom prepare meals. She loves to watch television and talk on the phone while snacking on chips and cookies. At the same time, Mary is aware that vitamins are vital to good health, so she takes large doses of vitamin and mineral supplements.

Your Recommendations:



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2. Frank, an attorney, is almost 60 years old. He is a third degree black belt who daily leaves work and teaches the martial arts. He is so busy that he only eats one meal a day, which he gets from a fast food drive through. For energy, he constantly sips on fruit drinks.

Your Recommendations:

3. Jerry is a 13 year old from an Italian family. Jerry's mother delights in feeding him rich, delicious Italian food, and he delights in eating it. To compensate for all the calories he consumes, Jerry works out for two hours every evening. In spite of all his lifting and running, Jerry is having a difficult time maintaining a healthy weight.

Your Recommendations:



Student Ivanie.		
Nutrition Foldable	Grading Rub	ric
Things I am looking for 1. Is each tab labeled correctly with each of the control of the con	each nutrient? the correct info	•
Point Values Name = 5 points Six Major Nutrients tab = 5 points Nutrients listed on each tab = 7 points Information included in each tab = 33 points Total Points = 50 points		
Carbohydrates Purpose (4 points) Simple Carbohydrates Complex Carbohydrates Dietary Fiber Proteins Purpose (4 points) Amino Acids Complete Proteins Incomplete Proteins Incomplete Proteins Fats Purpose (5 points) Saturated Fats Unsaturated Fats Trans Fats Cholesterol Vitamins (3 points) Water Soluble Fat Soluble Minerals (4 points)		Water (4 points) Vocabulary (9 points) Diet Nutrition Nutrients Sugar (fact) Sodium (fact) Caffeine Calories Nutrient Density Antioxidants
Iron Calcium, Magnesium and Phosphorus Potassium and Sodium		
	Total Score:	/50

Nutrition Study Guide

- Know all of the Nutrients and their descriptions
 - o H2O
 - How many cups/oz of water should you have a day?
 - o Carbohydrates
 - Simple
 - Complex
 - Dietary Fiber
 - o Proteins
 - Amino Acids
 - Complete
 - Incomplete
 - o Minerals
 - Iron
 - Calcium
 - Magnesium
 - Phosphorus
 - Potassium
 - Sodium
 - o Fats
 - Saturated
 - Unsaturated
 - Trans Fats
 - Cholesterol
 - o Vitamins
 - Vitamin C- helps with the common cold
 - Water Soluble
 - Fat Soluble
- Know the equations
 - o 9 calories per 1 gram of fat
 - o 4 calories per 1 gram of protein
 - o 4 calories per 1 gram of carbohydrates

How to find calories

- o Fat in grams (x) 9 = calories
- o Carbohydrates in grams (x) 4 = calories
- o Proteins in grams (x) 4 = calories
- How to find percentage
 - O Calories (-:-) total calories per serving (x) 100 = Percentage