Activity 1

Fats and Cholesterol

Purpose: Compare HDL and LDL cholesterol and summarize the roles of fat and cholesterol in the body. **Directions:** Suppose that you are a nutrition counselor. You are preparing to tell a client about the positive and negative effects of fats and cholesterol. To prepare for your meeting, you need to complete your notes. Fill in any words that are missing in the space provided.

Positive Effects	
	1. Carry vitamins,,, andto wherever they are needed in the body.
	2. Are needed for healthy skin and for normal
	 Supply energy, cushion vital organs and protect them from injury, add flavor to food, and move through the? system slowly helping you feel fuller longer.
Negative Effects	
	4. High levels increase the risk of heart disease and
	5. High levels can cause a person to become <u>?</u> or obese and increase his or her risk for other health-related problems.

Sources			
Contain high amounts of fats and cholesterol: Contain moderate amounts of fats and cholesterol:			
 Butter, margarine, oils Cream, sour cream, salad dressing Fried foods Some baked goods, chocolate 	 Some cuts of meat Nuts and seeds, peanut butter Egg yolks, whole milk, some cheeses 		

Cholesterol

- 6. ____, also known as "bad" cholesterol; a buildup in bloodstream increases risk of heart disease or _____.
- 7. ____, also known as "good" cholesterol; picks up excess cholesterol and takes it back to the liver.

Sources of Cholesterol

Two Types

8. Made in the body and found in foods from _____ sources.

(Continued on next page)

Class

Fats

	Date Class	
	Chapter 7 Activity 1 (continued)	
	A Look at the Four Types of Fatty Acids	
Saturated Fatty Acids		
Special Benefit None		
Special Problem		
	9. Raise the level of LDL cholesterol in the <u>?</u> .	
Sources		
	10. Sources are meat, <u>?</u> , and <u>?</u> , including coconut oil, palm oil palm kernel oil.	, and
Polyunsaturated Fatty A	ds	
Special Benefit Seem to help lower choleste	ol levels.	
Special Problem None		
Sources		
	_ 11. Sources include oils, such as corn oil, soybean oil, and safflow	ver oil
Monounsaturated Fatty	cids	
Special Benefit Appear to lower LDL choles	erol levels and may help raise levels of HDL.	
Special Problem None		
Sources		
	_ 12. Sources include olives, <u>?</u> , avocados, peanuts, peanut oil, and ca	nola o
Trans Fatty Acids		
Special Benefit None		
Special Problem	bloodstream.	
Raise the level of LDL in the		
Raise the level of LDL in the Sources		

Activity 2

Calculating Protein and Fat Needs

Purpose: To compute recommended amounts of protein and fat based on daily calories. **Directions:** For each person below, use the formulas in your text to calculate how much fat and protein each needs. Write your answers in the space provided. Show your calculations.

 Susan, a 15-year-old girl, has been on a low-carbohydrate/high-protein diet. She has decided to add some more carbohydrates back into her diet but still wants to keep her fat and protein intake at a healthy level. (a) How much protein will meet Susan's needs (in grams)? (b) How much fat will meet Susan's needs (in grams)?

2. Mrs. Siano is building too much muscle when she works out. She has decided to reduce her protein and fat to the lowest possible amount. (a) How much protein will meet Mrs. Siano's needs (in grams)? (b) How much fat will meet Mrs. Siano's needs (in grams)?

3. Mr. Lowman, an average adult male, has been diagnosed with hypertension. His doctor has recommended that he reduce his protein and fat intake to the lowest healthy level. (a) How much protein will meet Mr. Lowman's needs (in grams)? (b) How much fat will meet Mr. Lowman's needs (in grams)?

Chapter 7

Proteins and Fats

Class

