

## Balancing Food and Activity—An Energy Balance Exercise

**Directions:** Choose a snack—one or several foods that give you a total of between 150 and 250 Calories. Then use the chart on the other side to plan enough physical activity to burn up all the Calories from your snack.

Baby Carrots      10 carrots      40        Broccoli, raw      ½ cup      10        Celery, raw      1 stalk      5        Cucumber      ½ cup slices      5        Apple      1 medium      80        Banana      1 medium      80        Grapes, seedless      1/2 cup      55        Kiwifruit      1 medium      45        Orange      1 medium      65        Peach      1 medium      35        Strawberries, fresh      1 cup      45        Peanut butter      1 Tablespoon      95        Peanuts, salted      1.1 oz. (small snack package)      175        Sunflower seeds, roasted,      1 oz. (small snack package)      110        Potato chips, plain      1 oz. (small snack bag)      110        Potato chips, plain      1 oz. (small snack bag)      150        Tortilla chips      1 oz. (small snack bag)      170        Hershey Kiss      9 pieces      230        Milky Way      1.9 oz (1 regular candy bar)      230        Snickers      2.0 cl (1 regular candy bar)      270 <tr< th=""><th>Food</th><th>Serving Size</th><th>Calories (rounded to 5's)</th></tr<>	Food	Serving Size	Calories (rounded to 5's)
Celery, raw      1 stalk      5        Cucumber      ½ cup slices      5        Apple      1 medium      80        Banana      1 medium      105        Fruit cocktail, canned in juice      ½ cup      60        Grapes, seedless      1/2 cup      55        Kiwifruit      1 medium      45        Orange      1 medium      65        Peach      1 medium      35        Strawberries, fresh      1 cup      45        Peanut butter      1 Tablespoon      95        Peanut butter      1 oz. (small snack package)      195        Sunflower seeds, roasted,      1 oz. (small snack package)      110        Potato chips, plain      1 oz. (small snack bag)      110        Potato chips, plain      1 oz. (small snack bag)      150        Salsa      3 Tablespoons      25        Hot Cheetos      1 oz. (small snack bag)      170        Hershey Kiss      9 pieces      230        Milky Way      1.9 oz (1 regular candy bar)      270        Skittes      2.3 oz (1 regular candy bar)      270	Baby Carrots	10 carrots	40
Celery, raw      1 stalk      5        Cucumber      ½ cup slices      5        Apple      1 medium      80        Banana      1 medium      105        Fruit cocktail, canned in juice      ½ cup      60        Grapes, seedless      1/2 cup      55        Kiwifruit      1 medium      45        Orange      1 medium      65        Peach      1 medium      35        Strawberries, fresh      1 cup      45        Peanut butter      1 Tablespoon      95        Peanut butter      1 oz. (small snack package)      175        Popcorn, 94% fat free butter flavored      3 cups      60        Pretzels      1 oz. (small snack bag)      110        Potato chips, plain      1 oz. (small snack bag)      150        Tortilla chips      1 oz. (small snack bag)      150        Salsa      3 Tablespoons      25        Hot Cheetos      1 oz. (small snack bag)      170        Hershey Kiss      9 pieces      230        Milky Way      1.9 oz (1 regular candy bar)      230 <t< td=""><td>Broccoli, raw</td><td>1/2 cup</td><td>10</td></t<>	Broccoli, raw	1/2 cup	10
Apple      1 medium      80        Banana      1 medium      105        Fruit cocktail, canned in juice      ½ cup      60        Grapes, seedless      1/2 cup      55        Kiwifruit      1 medium      45        Orarge      1 medium      65        Peach      1 medium      35        Strawberries, fresh      1 cup      45        Peanut butter      1 Tablespoon      95        Peanuts, salted      1.1 oz. (small snack package)      195        Sunflower seeds, roasted,      1 oz. (small snack package)      175        Popcorn, 94% fat free butter flavored      3 cups      60        Pretzels      1 oz. (small snack bag)      110        Potato chips, plain      1 oz. (small snack bag)      150        Tortilla chips      1 oz. (small snack bag)      170        Hershey Kiss      9 pieces      230        Milky Way      1.9 oz (1 regular candy bar)      230        Snickers      2 oz. (1 regular candy bar)      270        Skittles      2.3 oz (1 regular candy bar)      270        Skittles      2.3 oz	Celery, raw		5
Lanana      1 medium      105        Fruit cocktail, canned in juice      ½ cup      60        Grapes, seedless      1/2 cup      55        Kiwifruit      1 medium      45        Orange      1 medium      65        Peach      1 medium      35        Strawberries, fresh      1 cup      45        Peanut butter      1 Tablespoon      95        Peanuts, salted      1.1 oz. (small snack package)      195        Sunflower seeds, roasted,      1 oz. (small snack package)      110        Potato chips, plain      1 oz. (small snack bag)      110        Potato chips, plain      1 oz. (small snack bag)      150        Salsa      3 Tablespoons      25        Hot Cheetos      1 oz. (small snack bag)      170        Hershey Kiss      9 pieces      230        Milky Way      1.9 oz (1 regular candy bar)      270        Skittles      2.3 oz (1 regular package)      260        Fruit roll-up      1 roll (1/2 oz.)      50        Chocolate chip cookies      2 small      100        Crackers, Ritz      4 cracker	Cucumber	1/2 cup slices	5
Banana      1 medium      105        Fruit cocktail, canned in juice      ½ cup      60        Grapes, seedless      1/2 cup      55        Kiwifruit      1 medium      45        Orange      1 medium      65        Peach      1 medium      65        Peach      1 medium      35        Strawberries, fresh      1 cup      45        Peanut butter      1 Tablespoon      95        Peanuts, salted      1.1 oz. (small snack package)      195        Sunflower seeds, roasted,      1 oz. (small snack package)      175        Popcorn, 94% fat free butter flavored      3 cups      60        Pretzels      1 oz. (small snack bag)      110        Potato chips, plain      1 oz. (small snack bag)      150        Tortilla chips      1 oz. (small snack bag)      170        Hershey Kiss      9 pieces      230        Milky Way      1.9 oz (1 regular candy bar)      230        Snickers      2 oz. (1 regular candy bar)      270        Skittles      2.3 oz (1 regular candy bar)      270        Skittles      2.3 oz	Apple	1 medium	80
Grapes, seedless      1/2 cup      55        Kiwifruit      1 medium      45        Orange      1 medium      65        Peach      1 medium      35        Strawberries, fresh      1 cup      45        Peanut butter      1 Tablespoon      95        Peanuts, salted      1.1 oz. (small snack package)      195        Sunflower seeds, roasted,      1 oz. (small snack package)      175        Popcorn, 94% fat free butter flavored      3 cups      60        Pretzels      1 oz. (small snack bag)      110        Potato chips, plain      1 oz. (small snack bag)      150        Tortilla chips      1 oz. (small snack bag)      150        Salsa      3 Tablespoons      25        Hot Cheetos      1 oz. (small snack bag)      170        Hershey Kiss      9 pieces      230        Milky Way      1.9 oz (1 regular candy bar)      230        Snickers      2 oz. (1 regular candy bar)      270        Skittles      2.3 oz (1 regular package)      260        Fruit roll-up      1 roll (1/2 oz.)      50        Chocolate chip c		1 medium	105
Kiwifruit      1 medium      45        Orange      1 medium      65        Peach      1 medium      35        Strawberries, fresh      1 cup      45        Peanut butter      1 Tablespoon      95        Peanuts, salted      1.1 oz. (small snack package)      195        Sunflower seeds, roasted,      1 oz. (small snack package)      175        Popcorn, 94% fat free butter flavored      3 cups      60        Pretzels      1 oz. (small snack bag)      110        Potato chips, plain      1 oz. (small snack bag)      150        Tortilla chips      1 oz. (small snack bag)      150        Salsa      3 Tablespoons      25        Hot Cheetos      1 oz. (small snack bag)      170        Hershey Kiss      9 pieces      230        Milky Way      1.9 oz (1 regular candy bar)      230        Snickers      2 oz. (1 regular candy bar)      270        Skittles      2.3 oz (1 regular package)      260        Fruit roll-up      1 roll (1/2 oz.)      50        Chocolate chip cookies      2 small      100        Crackers,	Fruit cocktail, canned in juice	1/2 cup	60
Kiwifruit      1 medium      45        Orange      1 medium      65        Peach      1 medium      35        Strawberries, fresh      1 cup      45        Peanut butter      1 Tablespoon      95        Peanuts, salted      1.1 oz. (small snack package)      195        Sunflower seeds, roasted,      1 oz. (small snack package)      175        Popcorn, 94% fat free butter flavored      3 cups      60        Pretzels      1 oz. (small snack bag)      110        Potato chips, plain      1 oz. (small snack bag)      150        Tortilla chips      1 oz. (small snack bag)      150        Salsa      3 Tablespoons      25        Hot Cheetos      1 oz. (small snack bag)      170        Hershey Kiss      9 pieces      230        Milky Way      1.9 oz (1 regular candy bar)      230        Snickers      2 oz. (1 regular candy bar)      270        Skittles      2.3 oz (1 regular package)      260        Fruit roll-up      1 roll (1/2 oz.)      50        Chocolate chip cookies      2 small      100        Crackers,	Grapes, seedless	1/2 cup	55
Peach1 medium35Strawberries, fresh1 cup45Peanut butter1 Tablespoon95Peanuts, salted1.1 oz. (small snack package)195Sunflower seeds, roasted,1 oz. (small snack package)175Popcorn, 94% fat free butter flavored3 cups60Pretzels1 oz. (small snack bag)110Potato chips, plain1 oz. (small snack bag)150Tortilla chips1 oz. (small snack bag)150Salsa3 Tablespoons25Hot Cheetos1 oz. (small snack bag)170Hershey Kiss9 pieces230Snickers2 oz. (1 regular candy bar)230Snickers2 oz. (1 regular candy bar)270Skittles2.3 oz (1 regular package)260Fruit roll-up1 roll (1/2 oz.)50Chocolate chip cookies2 small100Crackers, Ritz4 crackers70Crackers, Ritz5 crackers60Crackers, Wheat Thins8 crackers70Cheese, American1 oz. (1 slice)105Milk, tat free skim1 cup80Milk, chocolate 1%1 cup150			45
Peach1 medium35Strawberries, fresh1 cup45Peanut butter1 Tablespoon95Peanuts, salted1.1 oz. (small snack package)195Sunflower seeds, roasted,1 oz. (small snack package)175Popcorn, 94% fat free butter flavored3 cups60Pretzels1 oz. (small snack bag)110Potato chips, plain1 oz. (small snack bag)150Tortilla chips1 oz. (small snack bag)150Salsa3 Tablespoons25Hot Cheetos1 oz. (small snack bag)170Hershey Kiss9 pieces230Milky Way1.9 oz (1 regular candy bar)230Snickers2 oz. (1 regular candy bar)270Skittles2.3 oz (1 regular package)260Fruit roll-up1 roll (1/2 oz.)50Chocolate chip cookies2 small100Crackers, Ritz4 crackers70Crackers, Wheat Thins8 crackers70Cheese, American1 oz. (1 slice)105Milk, fat free skim1 cup80Milk, chocolate 1%1 cup150	Orange	1 medium	65
Peanut butter1 Tablespoon95Peanuts, salted1.1 oz. (small snack package)195Sunflower seeds, roasted,1 oz. (small snack package)175Popcorn, 94% fat free butter flavored3 cups60Pretzels1 oz. (small snack bag)110Potato chips, plain1 oz. (small snack bag)150Tortilla chips1 oz. (r big chips)150Salsa3 Tablespoons25Hot Cheetos1 oz. (small snack bag)170Hershey Kiss9 pieces230Milky Way1.9 oz (1 regular candy bar)230Snickers2 oz. (1 regular candy bar)270Skittles2.3 oz (1 regular package)260Fruit roll-up1 roll (1/2 oz.)50Chackers, Ritz4 crackers70Crackers, Saltines5 crackers60Crackers, Wheat Thins8 crackers70Cheese, American1 oz. (1 slice)105Milk, fat free skim1 cup80Milk, chocolate 1%1 cup150		1 medium	35
Peanut butter1 Tablespoon95Peanuts, salted1.1 oz. (small snack package)195Sunflower seeds, roasted,1 oz. (small snack package)175Popcorn, 94% fat free butter flavored3 cups60Pretzels1 oz. (small snack bag)110Potato chips, plain1 oz. (small snack bag)150Tortilla chips1 oz. (r big chips)150Salsa3 Tablespoons25Hot Cheetos1 oz. (small snack bag)170Hershey Kiss9 pieces230Milky Way1.9 oz (1 regular candy bar)230Snickers2 oz. (1 regular candy bar)270Skittles2.3 oz (1 regular package)260Fruit roll-up1 roll (1/2 oz.)50Chackers, Ritz4 crackers70Crackers, Saltines5 crackers60Crackers, Wheat Thins8 crackers70Cheese, American1 oz. (1 slice)105Milk, fat free skim1 cup80Milk, chocolate 1%1 cup150	Strawberries, fresh	1 cup	45
Peanuts, salted1.1 oz. (small snack package)195Sunflower seeds, roasted,1 oz. (small snack package)175Popcorn, 94% fat free butter flavored3 cups60Pretzels1 oz. (small snack bag)110Potato chips, plain1 oz. (small snack bag)150Tortilla chips1 oz. (T big chips)150Salsa3 Tablespoons25Hot Cheetos1 oz. (small snack bag)170Hershey Kiss9 pieces230Milky Way1.9 oz (1 regular candy bar)230Snickers2 oz. (1 regular candy bar)270Skittles2.3 oz (1 regular package)260Fruit roll-up1 roll (1/2 oz.)50Chocolate chip cookies2 small100Crackers, Ritz4 crackers70Crackers, Saltines5 crackers60Crackers, Wheat Thins8 crackers70Cheese, American1 oz. (1 slice)105Milk, fat free skim1 cup80Milk, chocolate 1%1 cup150	Peanut butter		95
Sunflower seeds, roasted,1 oz. (small snack package)175Popcorn, 94% fat free butter flavored3 cups60Pretzels1 oz. (small snack bag)110Potato chips, plain1 oz. (small snack bag)150Tortilla chips1 oz. (7 big chips)150Salsa3 Tablespoons25Hot Cheetos1 oz. (small snack bag)170Hershey Kiss9 pieces230Milky Way1.9 oz (1 regular candy bar)230Snickers2 oz. (1 regular candy bar)270Skittles2.3 oz (1 regular package)260Fruit roll-up1 roll (1/2 oz.)50Chocolate chip cookies2 small100Crackers, Ritz4 crackers70Crackers, Saltines5 crackers70Cheese, American1 oz. (1 slice)105Milk, fat free skim1 cup80Milk, chocolate 1%1 cup150	Peanuts, salted		195
Popcorn, 94% fat free butter flavored3 cups60Pretzels1 oz. (small snack bag)110Potato chips, plain1 oz. (small snack bag)150Tortilla chips1 oz. (7 big chips)150Salsa3 Tablespoons25Hot Cheetos1 oz. (small snack bag)170Hershey Kiss9 pieces230Milky Way1.9 oz (1 regular candy bar)230Snickers2 oz. (1 regular candy bar)270Skittles2.3 oz (1 regular package)260Fruit roll-up1 roll (1/2 oz.)50Chocolate chip cookies2 small100Crackers, Ritz4 crackers70Crackers, Wheat Thins8 crackers70Cheese, American1 oz. (1 slice)105Milk, fat free skim1 cup80Milk, chocolate 1%1 cup150	Sunflower seeds, roasted,		175
Pretzels1 oz. (small snack bag)110Potato chips, plain1 oz. (small snack bag)150Tortilla chips1 oz. (7 big chips)150Salsa3 Tablespoons25Hot Cheetos1 oz. (small snack bag)170Hershey Kiss9 pieces230Milky Way1.9 oz (1 regular candy bar)230Snickers2 oz. (1 regular candy bar)270Skittles2.3 oz (1 regular package)260Fruit roll-up1 roll (1/2 oz.)50Chackers, Ritz4 crackers70Crackers, Saltines5 crackers60Crackers, Wheat Thins8 crackers70Cheese, American1 oz. (1 slice)105Milk, fat free skim1 cup80Milk, chocolate 1%1 cup150	Popcorn, 94% fat free butter flavored		60
Potato chips, plain1 oz. (small snack bag)150Tortilla chips1 oz. (7 big chips)150Salsa3 Tablespoons25Hot Cheetos1 oz. (small snack bag)170Hershey Kiss9 pieces230Milky Way1.9 oz (1 regular candy bar)230Snickers2 oz. (1 regular candy bar)270Skittles2.3 oz (1 regular package)260Fruit roll-up1 roll (1/2 oz.)50Chocolate chip cookies2 small100Crackers, Ritz4 crackers70Crackers, Wheat Thins8 crackers70Cheese, American1 oz. (1 slice)105Milk, fat free skim1 cup80Milk, chocolate 1%1 cup150			110
Tortilla chips1 oz. (7 big chips)150Salsa3 Tablespoons25Hot Cheetos1 oz. (small snack bag)170Hershey Kiss9 pieces230Milky Way1.9 oz (1 regular candy bar)230Snickers2 oz. (1 regular candy bar)270Skittles2.3 oz (1 regular package)260Fruit roll-up1 roll (1/2 oz.)50Chocolate chip cookies2 small100Crackers, Ritz4 crackers70Crackers, Saltines5 crackers60Crackers, Wheat Thins8 crackers70Cheese, American1 oz. (1 slice)105Milk, fat free skim1 cup80Milk, chocolate 1%1 cup150	Potato chips, plain		150
Salsa3 Tablespoons25Hot Cheetos1 oz. (small snack bag)170Hershey Kiss9 pieces230Milky Way1.9 oz (1 regular candy bar)230Snickers2 oz. (1 regular candy bar)270Skittles2.3 oz (1 regular package)260Fruit roll-up1 roll (1/2 oz.)50Chocolate chip cookies2 small100Crackers, Ritz4 crackers70Crackers, Saltines5 crackers60Crackers, Wheat Thins8 crackers70Cheese, American1 oz. (1 slice)105Milk, fat free skim1 cup80Milk, chocolate 1%1 cup150	Tortilla chips	1 oz. (7 big chips)	150
Hershey Kiss9 pieces230Milky Way1.9 oz (1 regular candy bar)230Snickers2 oz. (1 regular candy bar)270Skittles2.3 oz (1 regular package)260Fruit roll-up1 roll (1/2 oz.)50Chocolate chip cookies2 small100Crackers, Ritz4 crackers70Crackers, Saltines5 crackers60Crackers, Wheat Thins8 crackers70Cheese, American1 oz. (1 slice)105Milk, fat free skim1 cup80Milk, chocolate 1%1 cup150			25
Hershey Kiss9 pieces230Milky Way1.9 oz (1 regular candy bar)230Snickers2 oz. (1 regular candy bar)270Skittles2.3 oz (1 regular package)260Fruit roll-up1 roll (1/2 oz.)50Chocolate chip cookies2 small100Crackers, Ritz4 crackers70Crackers, Saltines5 crackers60Crackers, Wheat Thins8 crackers70Cheese, American1 oz. (1 slice)105Milk, fat free skim1 cup80Milk, chocolate 1%1 cup150	Hot Cheetos		170
Milky Way1.9 oz (1 regular candy bar)230Snickers2 oz. (1 regular candy bar)270Skittles2.3 oz (1 regular package)260Fruit roll-up1 roll (1/2 oz.)50Chocolate chip cookies2 small100Crackers, Ritz4 crackers70Crackers, Saltines5 crackers60Crackers, Wheat Thins8 crackers70Cheese, American1 oz. (1 slice)105Milk, fat free skim1 cup80Milk, chocolate 1%1 cup150	Hershey Kiss		230
Snickers2 oz. (1 regular candy bar)270Skittles2.3 oz (1 regular package)260Fruit roll-up1 roll (1/2 oz.)50Chocolate chip cookies2 small100Crackers, Ritz4 crackers70Crackers, Saltines5 crackers60Crackers, Wheat Thins8 crackers70Cheese, American1 oz. (1 slice)105Milk, fat free skim1 cup80Milk, chocolate 1%1 cup150			230
Skittles2.3 oz (1 regular package)260Fruit roll-up1 roll (1/2 oz.)50Chocolate chip cookies2 small100Crackers, Ritz4 crackers70Crackers, Saltines5 crackers60Crackers, Wheat Thins8 crackers70Cheese, American1 oz. (1 slice)105Milk, fat free skim1 cup80Milk, chocolate 1%1 cup150			270
Fruit roll-up1 roll (1/2 oz.)50Chocolate chip cookies2 small100Crackers, Ritz4 crackers70Crackers, Saltines5 crackers60Crackers, Wheat Thins8 crackers70Cheese, American1 oz. (1 slice)105Milk, fat free skim1 cup80Milk, chocolate 1%1 cup150			260
Crackers, Ritz4 crackers70Crackers, Saltines5 crackers60Crackers, Wheat Thins8 crackers70Cheese, American1 oz. (1 slice)105Milk, fat free skim1 cup80Milk, chocolate 1%1 cup150	Fruit roll-up		50
Crackers, Ritz4 crackers70Crackers, Saltines5 crackers60Crackers, Wheat Thins8 crackers70Cheese, American1 oz. (1 slice)105Milk, fat free skim1 cup80Milk, chocolate 1%1 cup150	Chocolate chip cookies	2 small	100
Crackers, Wheat Thins8 crackers70Cheese, American1 oz. (1 slice)105Milk, fat free skim1 cup80Milk, chocolate 1%1 cup150		4 crackers	70
Crackers, Wheat Thins8 crackers70Cheese, American1 oz. (1 slice)105Milk, fat free skim1 cup80Milk, chocolate 1%1 cup150	Crackers, Saltines	5 crackers	60
Milk, fat free skim1 cup80Milk, chocolate 1%1 cup150		8 crackers	70
Milk, chocolate 1%1 cup150	Cheese, American	1 oz. (1 slice)	105
Milk, chocolate 1%1 cup150	Milk, fat free skim		80
		•	150
Apple juice   1 cup   115	Apple juice	1 cup	115
Koolaid 1 cup 105			
Gatorade 1 cup 65			
Coke or other soda 1 cup 100			
Water 1 cup 0			

## Energy IN: Snack Foods



**Public Health** 

Durham County Department of Public Health Nutrition Division (919) 560-7837. This material was funded by the SNAP-Ed Nutrition Education and Obesity Prevention Grant Program. In accordance with Federal law and U.S. Department of Agriculture policy, this institution is prohibited from discriminating on the basis of race, color, national origin, sex, age, religion, political beliefs or disability. To file a complaint of discrimination, write USDA, Director, Offices of Civil Rights, 1400 Independence Avenue, SW, Washington D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TTY). USDA is an equal opportunity provider and employer. SNAP, or Food and Nutrition Assistance, provides nutrition assistance to people with low income. It can help you buy nutritious foods for a better diet. To find out more, call (919) 560-8000.

## **Energy OUT: Physical Activity**

Activity	Calories Burned per Minute* (approximate) (Figures gathered from multiple health education sources.)
Sleeping or lying quietly	1
Watching television or eating	1.5
Walking slowly	2.5
Walking at a medium pace	3
Walking fast	3.5
Dancing	4
Push ups/ sit ups	4
Bicycling fast	4.5
Shooting baskets	5
Swimming fast	6
Playing basketball	7
Running in place	7
Jumping rope	8.5
Climbing stairs	9
Running very fast	10

Here are some examples to get you used to using the information above and get you ready for what comes next.

- 1. How much energy would you use (in other words, how many calories would you burn) if you ran very fast for 5 minutes?
  - Running very fast burns 10 calories per minute. Multiply that by the 5 minutes you would run to get your answer.
    10 Calories per minute x 5 minutes = 50 Calories
- 2. How much energy would you use if you swam fast for 10 minutes then shot baskets for 10 minutes?
  - a. Swimming fast burns 6 Calories per minute. Multiply that by 10 minutes.
  - b. Shooting baskets burns 5 Calories per minute. Multiply that by 10 minutes.
  - c. Add the two answers together.

(6 Calories per minute x 10 minutes) + (5 Calories per minute x 10 minutes) = 60 + 50 = 110 Calories total



Durham County Department of Public Health Nutrition Division (919) 560-7837. This material was funded by the SNAP-Ed Nutrition Education and Obesity Prevention Grant Program. In accordance with Federal law and U.S. Department of Agriculture policy, this institution is prohibited from discriminating on the basis of race, color, national origin, sex, age, religion, political beliefs or disability. To file a complaint of discrimination, write USDA, Director, Offices of Civil Rights, 1400 Independence Avenue, SW, Washington D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TTY). USDA is an equal opportunity provider and employer. SNAP, or Food and Nutrition Assistance, provides nutrition assistance to people with low income. It can help you buy nutritious foods for a better diet. To find out more, call (919) 560-8000.

## Balancing Energy IN and Energy OUT: Now It's Time to Figure It Out

Use the tables on the first 2 pages to find information about the food and activity you choose, then put that information into the tables below to decide if you can exercise off the snack foods you chose in a reasonable amount of time.

**Energy IN:** Multiply the numbers in the second and third columns to find Energy IN for each food, then add the Energy IN numbers (if you ate more than 1 food) to get the total Calories in your snack. (Number of servings you plan to eat x Calories per serving = Energy IN)

Example			
Food You Chose and Amount	Number of Servings	Calories Per Serving	Energy IN (Calories)
1 cup fruit cocktail	2 (It's 2 because the chart shows that 1 serving is ½ cup.)	60	(2 x 60) = 120
1 cup fat free skim milk 1 80			$(1 \times 80) = 80$
<b>Total Energy IN</b> (Add the numbers in the last column.)			120 + 80 =200

Now. vou trv.

Food You Chose and Amount	Number of Servings	Calories Per Serving	Energy IN (Calories)
Total Energy IN (Add the numbers in the last column.)			

Finally, check your choices. Is your total Energy In between 150 and 250 Calories? If so, great! Go on to Energy Out. If not, go back and adjust your snack food until the Calories are in between 150 and 250.

**Energy OUT:** Now, decide what activities you want to do to burn off your snack food and how many minutes you will do them. Be reasonable-most people can't run fast for two or more hours! Then multiply the Calories per minute by the number of minutes you will be active to find Energy OUT.

Example Calories per Minute **Activity You Chose** Number of Minutes **Energy OUT (Calories)**  $(7 \times 10) = 70$ Playing Basketball 7 10 8.5 10  $(8.5 \times 10) = 85$ Jumping Rope Walking (medium) 15  $(3 \times 15) = 45$ 3 Total Energy OUT (Add the numbers in the last column.) 200



Now, you try.			
Activity You Chose	Calories per Minute	Number of Minutes	Energy OUT (Calories)
Total Energy O	UT (Add the numbers in th	ne last column.)	

**Compare:** Does your Total Energy IN match your Total Energy OUT?

Total Energy IN = \_\_\_\_\_

Total Energy OUT = \_\_\_\_\_

• If they match, give yourself a big pat on the back—you're finished, and you understand something about energy balance.



• If they don't match, how do you think you can adjust your eating and/or activity to make them balance?



- If Energy IN is more than Energy OUT, you may do one or both of these things:
  - choose lower Calorie foods or less food,
  - choose to exercise longer or more intensely. Doing both would be best, but you choose it's up to you.



- If Energy IN is less than Energy OUT, you may do one or both of these things
  - choose higher Calorie foods or more food,
  - choose to exercise for less time or less intensely (although cutting back on exercise is often not a good idea).



**Public Health** 

Durham County Department of Public Health Nutrition Division (919) 560-7837. This material was funded by the SNAP-Ed Nutrition Education and Obesity Prevention Grant Program. In accordance with Federal law and U.S. Department of Agriculture policy, this institution is prohibited from discriminating on the basis of race, color, national origin, sex, age, religion, political beliefs or disability. To file a complaint of discrimination, write USDA, Director, Offices of Civil Rights, 1400 Independence Avenue, SW, Washington D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TTY). USDA is an equal opportunity provider and employer. SNAP, or Food and Nutrition Assistance, provides nutrition assistance to people with low income. It can help you buy nutritious foods for a better diet. To find out more, call (919) 560-8000.