

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)
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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



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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



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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			$(1 \times 80) = 80$
Total Energy IN (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).



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