

THE MOST AMAZING THINGS ON EARTH LEAVE EARTH, LOOK UP.

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One challenge NASA scientists face is providing a balanced, nutritious diet for astronauts. Crews on the International Space Station or even as far away as the Moon can be resupplied with food from Earth in a matter of days. When traveling to another planet, however, a crew must either pack enough food for the entire journey (and the trip home!) or find a way to produce food during the mission. With our current technology, it takes about six months to get to Mars and we will stay there for several months. How much food needs to be packed for such a trip?

1. Calculate how much food you eat on a typical day. Keep a record of everything you eat for one day and use that to calculate your total grams of food per day. (Don't include water, just food.) HINT: Look at food labels to figure out how many grams are in a serving and what the serving size is.

2. At this rate, how much food would a crew of four need for a six-month one-way trip to Mars? *Hint: Assume the trip begins on January 1st and it is not a leap year.* 

number of **days** (d) = \_\_\_\_\_ number of **astronauts** ( $\boldsymbol{a}$ ) = \_\_\_\_\_  $g \times d \times a =$  \_\_\_\_\_ kilograms

- 3. How much food would this crew need for a two-year Mars mission? \_\_\_\_\_ kilograms
- **4.** According to the book "Space Nutrition," how many of your calories should come from carbohydrates, how many from fats and how many from proteins? Hint: Read pages 46-47. Color in the pie chart and the key to show these amounts.

calories from **carbohydrates** = \_\_\_\_\_ % carbohydrates calories from **fats** = \_\_\_\_\_ % fats calories from **proteins** = \_\_\_\_\_ % proteins





## $Space\ Nutrition \quad \ \ (page\ 2\ of\ 2)$

5. I	Label eac	ch of the	foods be	elow as a	good s	source o	f carbo	ohydrate	s ( <b>C</b> )	, fats (I	F) or p	rotei	ns ( <b>P</b> ).
Soi	ne foods	contain	more that	an one k	ind of c	alories.	Hint:	Look at	food	labels i	to help	you	decide.

apple	bread	cheese
eggs	butter	fish
rice	chicken	pasta
beans	carrots	whole milk

**BONUS:** Play the game "Space Lunch," at NASA Kids Club. https://www.nasa.gov/kidsclub/flash/clubhouse/Space\_Lunch.html

