Vegetarian Eating for teens and adults

This handout will help you to plan a balanced vegetarian diet.
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Sample vegetarian menu

<table>
<thead>
<tr>
<th>Time</th>
<th>Meal</th>
<th>Ingredients</th>
</tr>
</thead>
</table>
| Breakfast  | 1 cup oatmeal or 2 scrambled omega-3 eggs  
1 slice whole grain toast  
1 to 2 tsp margarine  
1 cup skim or 1% milk, or calcium fortified soy milk  
1 banana    |
| Lunch      | 1 cup vegetarian chili or baked beans  
5 to 6 whole grain crackers  
4 celery sticks  
1 apple  
1 cup skim or 1% milk, or calcium fortified soy milk    |
| Snack      | 1 cup low fat yogurt with 1 tsp ground flax seed  
1/4 cup trail mix    |
| Evening meal | 2 cups vegetarian stir fry with tofu  
1 cup brown rice  
1 cup fresh cantaloupe  
1 cup calcium fortified orange juice    |
| Night snack | 1/4 cup hummus  
1/2 pita bread    |
Vegetarian eating for teens and adults

Vegetarian cookbooks

The New Becoming Vegetarian: The Essential Guide to a Healthy Vegetarian Diet

Cooking Vegetarian
By Vesanto Melina, RD, and Joseph Forest
MacMillan Canada, 1996

Rose Reisman's Light Vegetarian Cooking
By Rose Reisman
Robert Rose Inc, 1998

How it all Vegan! Irresistible Recipes for an Animal Free Diet
By Tanya Barnard and Sarah Kramer
Arsenal Pulp Press, 1999

Tofu Mania
By Brita Housez
Centax Books, 1999

Lean Bean Cuisine
By Jay Solomon
Prima Publishing USA, 1995

Moosewood Restaurant Low Fat Favourites
By The Moosewood Collective
Clarkson N. Potter Inc
USA, 1996.

Vegetarian Times Complete Cookbook
By the editors of Vegetarian Times and L. Moll.
Macmillan USA, 1995

Vegetarian Times Low-fat and Fast
By the editors of Vegetarian Times
Macmillan USA, 1996.

What is the Vegetarian Food Guide Rainbow?

The Vegetarian Food Guide Rainbow lists the serving sizes from each food group that are needed for a healthy vegetarian diet. It is a variation of Canada's Food Guide to healthy eating with vegetarian food options. See the copy in this handout.

Note the types of foods you can choose within each food group and what a serving size looks like. For example, 1/2 cup of cooked brown rice counts as one serving from the Grains food group.

The guide also shows you which foods are rich in calcium. They are listed on the left side of the rainbow. For example, 1/2 cup of fortified soymilk counts as 1 serving from the Calcium-rich foods group and 1 serving from the Legumes, Nuts and other Protein-rich foods group.

How many servings do I need?

The number of servings you will need from each food group depends on your age, body size, activity level, whether you are male or female and if you are pregnant or breastfeeding.

This chart lists the least number of servings needed daily by each age group. Your dietitian will discuss the number of servings you will need each day.

<table>
<thead>
<tr>
<th></th>
<th>Grains</th>
<th>Legumes, Nuts, other Protein-rich foods</th>
<th>Vegetables</th>
<th>Fruit</th>
<th>Fats</th>
<th>Calcium rich foods</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teens - 13 to 18 years</td>
<td>6</td>
<td>6</td>
<td>4</td>
<td>2</td>
<td>2</td>
<td>10</td>
</tr>
<tr>
<td>Adults - 19 years and older</td>
<td>6</td>
<td>5</td>
<td>4</td>
<td>2</td>
<td>2</td>
<td>8</td>
</tr>
<tr>
<td>Pregnancy</td>
<td>6</td>
<td>7</td>
<td>4</td>
<td>2</td>
<td>2</td>
<td>8</td>
</tr>
<tr>
<td>Breastfeeding</td>
<td>6</td>
<td>8</td>
<td>4</td>
<td>2</td>
<td>2</td>
<td>8</td>
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How do these servings fit into the Vegetarian Food Guide Rainbow?

Here is an example of how a breakfast meal fits into the Vegetarian Food Guide Rainbow. Check your answers on page 13.

- 1 cup calcium fortified orange juice counts as ____ servings Fruits and ____ servings Calcium-rich foods
- 1 cup of fortified soymilk counts as ____ servings Legumes, Nuts and other Protein-rich foods and ____ servings Calcium-rich foods
- 2 pieces whole wheat toast counts as ____ servings Grains
- 2 tablespoons peanut butter counts as ____ serving Legumes, Nuts and other Protein-rich foods

Checklist for healthy eating ...

Make sure you include:
- A variety of foods from each of the food groups.
- At least the minimum number of servings from each of the food groups.
- 8 or more servings from the Calcium-rich food group.
- 2 servings of foods that supply omega-3 fats. Look for sources of foods rich in omega-3 fats in the Fats group and Legumes, Nuts and other Protein-rich foods.
- 2 to 4 servings of vitamin B-12 rich foods.
- Other foods like alcohol and sweets less often.

Answers to Page 4 questions:
- 1 cup calcium fortified orange juice counts as 2 servings Fruits.
- 1 cup of fortified soymilk counts as 2 servings Legumes, Nuts and other Protein-rich foods and 2 servings Calcium-rich foods.
- 2 pieces whole wheat toast counts as 2 servings Grains.
- 2 tablespoons peanut butter counts as 1 serving Legumes, Nuts and other Protein-rich foods.
Zinc

What is zinc?

Zinc is a nutrient that:
- helps your immune system protect your body against disease
- helps heal wounds
- is important for growth and development

Getting enough zinc is important for vegetarians and non-vegetarians. Our bodies absorb less zinc from plant sources than from animal sources. Meeting your recommended number of daily servings from Grains and Legumes, Nuts and other Protein-rich foods will help you meet your daily zinc needs.

Metric and imperial size conversion chart

This chart may help you with serving sizes:

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<td>5 ml = 1 teaspoon (tsp)</td>
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What about other foods and beverages that do not fit into the rainbow?

Limit foods and beverages that are high in calories, fat, sugar or salt, such as desserts, fried snack foods, alcohol and sugar sweetened beverages.

Your dietitian will discuss how you can include these foods and beverages in your diet.

What do I need to pay special attention to?

You will need to pay special attention to these nutrients when planning a vegetarian diet:
- protein
- iron
- vitamin B-12
- calcium and vitamin D
- omega-3 fats
- zinc

Learn more about how to get these nutrients on the next pages.
Protein

What is protein?
Protein plays an important role in the growth and repair of tissues in the body. Protein is made up of small units called amino acids. Amino acids are the building blocks of your skin, muscle and organs.

Our bodies can make some of the amino acids that are needed to build protein, but others must come from the food we eat. These amino acids are called essential amino acids. Most plant sources of protein do not contain all the essential amino acids the body needs.

Eating a variety of vegetarian sources of protein throughout the day helps you to meet your protein needs.

What do I need to eat to get enough protein?
1. Legumes
   Legumes are rich in protein and are also excellent sources of fibre, B vitamins and iron. Examples of legumes include kidney beans, soybeans, peas, lentils, black-eyed peas, chickpeas, and lima beans.
   To eat on their own or as a side dish, try soaking and cooking dried peas and beans before meal times or use canned legumes.
   Other ideas include trying legumes in recipes such as chili, baked beans, soup and rice dishes.

Omega-3 fats

What are omega-3 fats?
Omega-3 fats are a type of fat that our bodies need. Omega-3 fats are important because of the role they play in normal growth and development. They are also important because they may play a role in preventing heart disease, high blood pressure, arthritis and cancer.

What do I need to eat to get enough omega-3 fats?
For non-vegetarians, fish is one of the best sources of omega-3 fats. However, there are other sources of omega-3 fats that can help to meet a vegetarian’s needs.

Include 2 servings of omega-3 rich foods everyday. Pregnant and lactating women, as well as people with certain medical conditions, may need more omega-3 fats in their diet.

Examples of one serving include:
- Ground flaxseeds (1 tbsp) and flaxseed oil (1 tsp)
- Canola or soybean oil, or margarines made with these oils (1 tbsp)
- Hemp seed oil (1 tbsp), and shelled hemp seeds (1/4 cup)
- Walnuts (1/4 cup)
- Soybeans, cooked (1/2 cup) and tofu (1/2 cup)
- Omega-3 eggs (1 each)
Calcium

What is calcium?
Calcium is a mineral that is important at all ages. Along with vitamin D, calcium helps to maintain healthy bones and to prevent osteoporosis.

What do I need to eat to get enough calcium?
Here is a list of foods that are sources of calcium. Go to page 4 to see how many servings of calcium-rich foods you need to have each day. Examples of one serving include:

- Tofu processed with calcium (check label) (1/2 cup)
- Kale, broccoli, bok choy (1 cup cooked or 2 cups raw)
- Cow’s milk or yogurt (1/2 cup)
- Cheese (3/4 oz or 21 grams)
- Orange juice fortified with calcium** (1/2 cup)
- Calcium fortified soy, rice or almond milk** (1/2 cup)
- Calcium fortified breakfast cereal (1 oz or 28 grams)
- Almonds (1/4 cup)
- Soybeans, cooked (1/2 cup)
- Dried figs (5)

**Always read the label to be sure that these products are fortified with calcium.

Vitamin D

What is vitamin D?
Vitamin D works with calcium to help build strong bones and teeth. Your needs for vitamin D can be met by eating fortified foods, taking a vitamin D supplement, or from sunlight on your skin. However, the amount of vitamin D produced from sun on your skin depends on many factors including the strength of the sun where you live, time of year and your skin colour. Just a few minutes of sunlight on unprotected skin will increase your vitamin D, but for some people it may also increase the risk of sun damage. Experts suggest that more research is needed in this area before specific recommendations about sunlight and vitamin D can be made.

What do I need to eat to get enough vitamin D?

- Cow’s milk
- Breakfast cereal (check labels)
- Fortified soymilk and rice milk
- Margarine
- Cow’s milk
- Fortified soymilk and rice milk
- Margarine

2. Soy

Soy products are a good source of protein and can be a great alternative for meat. They can boost the protein, calcium, and iron content of many dishes. Soy products can be used in just about any recipe.

Here are some sources of soy you can try:

- Tofu or tempeh can be used in place of meat in many recipes. Tofu and tempeh are two different types of products made from soybeans. They can be crumbled, cubed, grilled, stir-fried, or baked. Try marinating tofu or tempeh before cooking as they absorb flavours well.
- Soy-based meat analogs (substitutes) such as veggie burgers, hot dogs and deli slices can be used in place of meat-based ones. Look for those that are fortified with extra minerals and vitamins such as vitamin B-12.
- Fortified soy milk can be substituted for cow’s milk in most recipes, or enjoyed on its own.
- Textured Vegetable Protein (TVP) is processed soybean protein that can look and taste like meat. TVP can be used in place of meat in recipes such as chili, tacos, sloppy joes, casseroles, or spaghetti sauce.
- Soy flour will increase the protein content of baked products. A 1/2 cup supplies 22 grams of protein. Replace up to one half of the regular flour called for in your favourite recipes with soy flour.

3. Other vegetarian sources of protein include:

- Milk and milk products, such as cheese and yogurt
- Eggs
- Nuts such as peanuts, almonds and cashews
- Seeds such as sunflower, pumpkin and sesame
- Nut and seed butters
- Grain products such as quinoa, rice, breads, flours, pastas and cereals
Iron

What is iron?

Iron is a mineral that your body needs. Iron helps carry oxygen to all parts of your body and it helps form red blood cells. Women, especially who are vegetarians, are at a greater risk of having low iron levels. Iron needs are increased for women aged 19 to 50 and during pregnancy. If the iron level in your body is low, you may feel weak, tired and look pale.

What vegetarian foods are sources of iron?

Iron that does not come from animal products is called non-heme iron. Non-heme iron is found in vegetarian products such as:

- Fortified breakfast cereals
- Tofu
- Pumpkin seeds
- Blackstrap molasses
- Legumes, such as beans, peas and lentils
- Baked potato with skin
- Almonds and cashews
- Almond and cashew butter
- Dried fruits such as apricots, currants, figs, prunes, raisins
- Greens such as broccoli, kale, bok choy
- Soy-based meat analogs such as vegetarian burgers, hot dogs and deli slices

What do I need to eat to get enough iron?

Because non-heme iron is not absorbed as well as heme-iron from animal products, it is important to:

- Include a food source of vitamin C with your meals. Vitamin C helps your body absorb iron. Some sources of vitamin C include broccoli, green and red peppers, citrus fruit or juice, strawberries, tomatoes, and potatoes.
- If you drink tea or coffee, have it at least one hour before or after your meals. Tea and coffee contain compounds that can decrease your iron absorption.
- Calcium supplements can interfere with iron absorption. If you take calcium supplements, talk to your doctor or dietitian about calcium and iron.

Vitamin B-12

What is vitamin B-12?

Vitamin B-12 plays a key role in maintaining the health of nerve cells and red blood cells.

Vitamin B-12 needs vary with stage of life:

<table>
<thead>
<tr>
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<tbody>
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What do I need to eat to get enough vitamin B-12?

Vitamin B-12 is mainly found in animal products. However, there are a few plant-based foods that have been fortified with vitamin B-12.

You will need to include 2 to 4 servings of vitamin B-12 rich foods in your diet everyday. Examples of one serving of vitamin B-12 rich foods as found in the Vegetarian Food Guide Rainbow include:

- Fortified soy, rice or almond milk (1/2 cup)
- Cow’s milk (1/2 cup)
- Fortified breakfast cereals (1 oz or 28 grams)
- Soy based meat analogs such as veggie burgers, hot dogs or deli slices (1 oz or 28 grams) - you will need to check labels as not all brands contain vitamin B-12
- Eggs (1 large)
- Red Star Vegetarian Support Formula™ nutritional yeast (1 tbsp or 3 grams) - other brands are not reliable sources of vitamin B-12

If you do not eat at least your recommended number of servings a day of vitamin-B12 rich foods, you will need to take a vitamin B-12 supplement of 5 to 10 mcg a day or 2,000 mcg a week. Talk to your doctor or a dietitian about a vitamin B-12 supplement.
**Iron**

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- Almonds and cashews
- Almond and cashew butter
- Dried fruits such as apricots, currants, figs, prunes, raisins
- Greens such as broccoli, kale, bok choy
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- Canola or soybean oil, or margarines made with these oils (1 tbsp)
- Hemp seed oil (1 tbsp), and shelled hemp seeds (1/4 cup)
- Walnuts (1/4 cup)
- Soybeans, cooked (1/2 cup) and tofu (1/2 cup)
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Your dietitian will discuss how you can include these foods and beverages in your diet.

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You will need to pay special attention to these nutrients when planning a vegetarian diet:
- protein
- iron
- vitamin B-12
- calcium and vitamin D
- omega-3 fats
- zinc

Learn more about how to get these nutrients on the next pages.
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Here is an example of how a breakfast meal fits into the Vegetarian Food Guide Rainbow. Check your answers on page 13.

- 1 cup calcium fortified orange juice counts as ____ servings Fruits
  and ____ servings Calcium-rich foods

- 1 cup of fortified soymilk counts as ____ servings Legumes, Nuts and other Protein-rich foods and ____ servings Calcium-rich foods

- 2 pieces whole wheat toast counts as ____ servings Grains

- 2 tablespoons peanut butter counts as ____ serving Legumes, Nuts and other Protein-rich foods

Checklist for healthy eating ...

Make sure you include:

- A variety of foods from each of the food groups.
- At least the minimum number of servings from each of the food groups.
- 8 or more servings from the Calcium-rich food group.
- 2 servings of foods that supply omega-3 fats. Look for sources of foods rich in omega-3 fats in the Fats group and Legumes, Nuts and other Protein-rich foods.
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- Other foods like alcohol and sweets less often.

Answers to Page 4 questions:

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Prima Publishing USA, 1995

Moosewood Restaurant Low Fat Favourites
By The Moosewood Collective Clarkson N. Potter Inc USA, 1996.

Vegetarian Times Complete Cookbook
By the editors of Vegetarian Times and L. Moll.
Macmillan USA, 1995

Vegetarian Times Low-fat and Fast
By the editors of Vegetarian Times
Macmillan USA, 1996.

Useful websites

Vegetarian Resource Group
www.vrg.org

Vegetarian Pages
www.veg.org/veg/

Toronto Vegetarian Association
www.veg.ca

Vegetarian Society
www.vegsoc.org

Dietitians of Canada
www.dietitians.ca

What is the Vegetarian Food Guide Rainbow?

The Vegetarian Food Guide Rainbow lists the serving sizes from each food group that are needed for a healthy vegetarian diet. It is a variation of Canada’s Food Guide to healthy eating with vegetarian food options. See the copy in this handout.

Note the types of foods you can choose within each food group and what a serving size looks like. For example, 1/2 cup of cooked brown rice counts as one serving from the Grains food group.

The guide also shows you which foods are rich in calcium. They are listed on the left side of the rainbow. For example, 1/2 cup of fortified soymilk counts as 1 serving from the Calcium-rich foods group and 1 serving from the Legumes, Nuts and other Protein-rich foods group.

How many servings do I need?

The number of servings you will need from each food group depends on your age, body size, activity level, whether you are male or female and if you are pregnant or breastfeeding.

This chart lists the least number of servings needed daily by each age group. Your dietitian will discuss the number of servings you will need each day.

<table>
<thead>
<tr>
<th></th>
<th>Grains</th>
<th>Legumes, Nuts, other Protein-rich foods</th>
<th>Vegetables</th>
<th>Fruit</th>
<th>Fats</th>
<th>Calcium rich foods</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teens 13 to 18 years</td>
<td>6</td>
<td>6</td>
<td>4</td>
<td>2</td>
<td>2</td>
<td>10</td>
</tr>
<tr>
<td>Adults 19 years and older</td>
<td>6</td>
<td>5</td>
<td>4</td>
<td>2</td>
<td>2</td>
<td>8</td>
</tr>
<tr>
<td>Pregnancy</td>
<td>6</td>
<td>7</td>
<td>4</td>
<td>2</td>
<td>2</td>
<td>8</td>
</tr>
<tr>
<td>Breastfeeding</td>
<td>6</td>
<td>8</td>
<td>4</td>
<td>2</td>
<td>2</td>
<td>8</td>
</tr>
</tbody>
</table>

Note: The numbers for Canadians pregnant or breastfeeding are the same as for adults. Pregnant and breast-feeding women need more energy, so they may need more than the adults in the chart.
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Sample vegetarian menu

<table>
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<th>Time</th>
<th>Meal</th>
<th>Items</th>
</tr>
</thead>
</table>
| Breakfast  | 1 cup oatmeal or 2 scrambled omega-3 eggs  
           | 1 slice whole grain toast 
           | 1 to 2 tsp margarine 
           | 1 cup skim or 1% milk, or calcium fortified soy milk 
           | 1 banana |
| Lunch      | 1 cup vegetarian chili or baked beans  
           | 5 to 6 whole grain crackers  
           | 4 celery sticks 
           | 1 apple 
           | 1 cup skim or 1% milk, or calcium fortified soy milk |
| Snack      | 1 cup low fat yogurt with 1 tsp ground flax seed  
           | 1/4 cup trail mix |
| Evening meal | 2 cups vegetarian stir fry with tofu  
           | 1 cup brown rice  
           | 1 cup fresh cantaloupe  
           | 1 cup calcium fortified orange juice |
| Night snack | 1/4 cup hummus  
               | 1/2 pita bread |
Vegetarian Eating for teens and adults

This handout will help you to plan a balanced vegetarian diet.
Vegetarian Food Guide Rainbow

Grains
6 servings a day
- Bread
1 Slice
- Cooked grain or cereal
½ cup (125 mL)
- Cow’s milk or yogurt or fortified soymilk
½ cup (125 mL)
- Egg - 1

Legumes, Nuts and other Protein-rich foods
5 to 8 servings a day
- Tofu or tempeh
½ cup (125 mL)
- Cooked beans, peas or lentils
½ cup (125 mL)
- Nuts or seed butter
2 tbsp (30 mL)
- Nuts
¼ cup (60 mL)
- Meat analog
1 oz (28 g)
- Cooked vegetables
½ cup (125 mL)
- Vegetable juice
½ cup (125 mL)

Vegetables
4 servings a day
- Cooked vegetables
1 cup (250 mL)
- Bok choy, broccoli, collard, chinese cabbage, kale, mustard greens or okra
- Raw vegetables
1 cup (250 mL)
- Vegetable juice
½ cup (125 mL)

Fruits
2 servings a day
- Cut up or cooked fruit
½ cup (125 mL)
- Fruit juice
½ cup (125 mL)
- Dried fruit
¼ cup (60 mL)
- Calcium fortified fruit juice
½ cup (125 mL)

Fats
3 to 6 servings a day
- Oil, mayonnaise, soft margarine or ground flax seed
1 tsp (5 mL)

Calcium-rich foods
8 to 10 servings a day
- Calcium-fortified breakfast cereal
1 oz (28 g)
- Cheese
¾ oz (21 g)
- Tempeh or calcium-set tofu
½ cup (125 mL)
- Almonds
¼ cup (60 mL)
- Almond butter or sesame tahini
2 tbsp (30 mL)
- Cooked soybeans
½ cup (125 mL)
- Soynuts
¼ cup (60 mL)
- Fortified tomato juice
½ cup (125 mL)
- Cut up or cooked fruit
½ cup (125 mL)
- Dried fruit
¼ cup (60 mL)
- Calcium fortified fruit juice
½ cup (125 mL)
- Figs - 5

The Vegetarian Food Guide Rainbow is adapted with permission from Dietitians of Canada*.