## **Fuel for Your Brain**

Use these exchanges to help guide your portions on your meal plan. If you have questions, consult with your registered dietitian.

**Complex Carbohydrates** provide energy for the brain and muscles, fiber, B vitamins, minerals (iron, magnesium, selenium), and phytonutrients. Exchanges are measured in ounces. One ounce equivalents are listed here:

Measurement	Ingredient	
1 slice	Bread (white, pumpernickel, whole wheat, rye)	
2 slices	Reduced-calorie or "lite" bread	
1	Mini bagel or bagel thin	
1/2	Medium bagel	
1/4	Large bagel	
1/2	English muffin	
1/2	Hamburger bun	
3/4 C	Cold cereal	
1/4 C	Granola or rolled oats	
1/3 C	Rice, brown or white, cooked	
1/3 C	Barley or couscous, cooked	
1/3 C	Legumes (dried beans, peas or lentils), cooked	
½ C	Pasta, bulgur, barley, quinoa, couscous, corn, potatoes, or peas, cooked	
1/2	Medium baked potato	
¾ oz. OR 15 pieces	Pretzels	
8-10	Crackers	
½ C	Croutons	
1	Nature Valley Granola Bar (½ package)	
6	Tater tots: count as 1 complex carb, 1 fat	
3 C	Popcorn, hot air popped or microwave (80% light)	
1	Large croissant: count as 2 complex carbs, 1 fat	
1	Garlic breadstick: count as 1 complex carb, 1 fat	
6-8"	Flour tortilla/wrap	
2	Corn tortillas	
2	Hard shell taco shells: count as 1 complex carb, 1 fat	
1	2 ½" Biscuit: count as 1 complex carb, 1 fat	
1	4" waffle or pancake	
1	3" muffin: count as 2 complex carbs	

**Vegetables** provide potassium, fiber, folate, vitamin A, vitamin C, vitamin K, antioxidants, and phytonutrients. Exchanges are measured in ½ cup servings. One serving equivalents are listed here:

Measurements	Ingredient	
½ C	Cooked vegetables (carrots, broccoli, zucchini, cabbage, etc.)	
1 C	Raw vegetables or cooked greens	
2 C	Fresh leafy greens	
½ C	Vegetable juice	

**Fats** provide energy and support a healthy brain, skin, and nails. Exchanges are measured in teaspoons. One teasopoon equivalents are listed here:

Measurements	Ingredient
1tsp	Oil (vegetable, corn, canola, olive, etc.)
1tsp	Butter, margarine, or mayo
1 Tbsp	Reduced-fat margarine or mayonnaise
1Tbsp	Salad dressing
1 Tbsp	Cream cheese
1 Tbsp	Pesto
1 Tbsp	Nuts/Seeds
2 Tbsp	Lite cream cheese
2 Tbsp	Hummus
1/4 C	Shredded cheese OR 1 slice (count as 1 fat, 1 milk OR 1 protein)
1/8 or 2 Tbsp	Avocado or guacamole
8 large	Black olives
10 large	Stuffed green olives
1 slice	Bacon
½ T	Nut Butter

**Fruits** provide potassium, fiber, vitamin C, folate, antioxidants, and phytonutrients as well as carbohydrates for energy. Exchanges are measured in ½ cup servings. One serving equivalents are listed here:

Measurements	Ingredient	
1 small	Apple, banana, orange, nectarine	
1 medium	Fresh peach or grapefruit	
2	Clementines, apricots, tangerines, plums, or kiwis	
½ C	Applesauce or canned fruit	
1/2	Mango or large banana	
1-1/4 C	Fresh berries (strawberries, raspberries, or blueberries)	
1½C	Fresh melon (watermelon, cantaloupe, honeydew)	
4 oz.	Unsweetened juice	
4 tsp.	Jelly, jam, or preserves	
2 T or 1 mini-box	Raisins or dried cranberries	
1/4 c	Dried fruit	
4	Apricot halves	

**Low-Fat Dairy** provides calcium, potassium, phosphorus, vitamins A, B2, B12, and D, niacin, and protein.

**Alternative Calcium** sources provide calcium and a variety of other nutrients. Exchanges are measured in 1 cup servings. One serving equivalents are listed here:

Measurements	Ingredient	
1 C	Milk, fat-free or 1% fat or original soy milk	
1½C	Original almond milk	
3/4 C	Yogurt, plain nonfat or low-fat (cow or coconut)	
1 C	Yogurt, artificially sweetened	
1/3 C	Shredded cheese	
1	Slice cheese or cheese stick or original Baby Bel	
2	Low fat Baby Bel	
1 C	Cooked collard greens	
1 C	Calcium fortified orange juice	
½ oz./12 kernels	Almonds (not an optimal calcium source)	
2 oz.	Fortified tofu	

**Very Lean Protein** choices provide protein, very little fat, several B vitamins including vitamin B12, and minerals iron, zinc, and magnesium. **Double your portions if choosing proteins from this group.** Exchanges are measured in ounces. One ounce equivalents are listed here:

Measurements	Ingredient	
1 oz	Turkey breast or chicken breast, skin removed	
1 oz	Fish fillet (flounder, tilapia, sole, scrod, cod, etc.)	
1 oz	Canned tuna in water	
1 oz	Shellfish (clams, lobster, scallop, shrimp)	
3/4 C	Low fat cottage cheese	
2	Egg whites	
1/4 C	Egg substitute	
1 oz	Fat-free cheese	

**Meat, Fish, and Dairy Proteins** choices provide protein, some fat, several B vitamins including vitamin B12, and minerals iron, zinc, and magnesium. Exchanges are measured in ounces. One ounce equivalents are listed here:

Measurements	Ingredient	
1 oz	Chicken—dark meat, skin removed	
1 oz	Turkey—dark meat, skin removed	
1 oz	Salmon, swordfish, herring	
1 oz	Beef (flank steak, London broil, tenderloin, roast beef or any prime cut)	
1 oz	Veal, roast or lean chop	
1 oz	Lamb, roast or lean chop	
1 oz	Pork, tenderloin, fresh ham, or pork chop	
1 oz/3-4 slices	Low-fat lunch meats (with 3 g or less of fat per ounce)	
1 oz	Mozzarella cheese	
1/4 C	Ricotta cheese	
1/4 C	4.5% cottage cheese	
½ C	Nonfat Greek yogurt	
1/3 C	2% Greek yogurt	
1	Whole egg (medium)	
1 oz	Low-fat cheese (with 3 g or less of fat per ounce)	

**Meat Alternatives** provide protein and often other macronutrients, fiber, vitamins, and minerals. One ounce equals:

Measurements	Ingredient	
½ C	Beans, cooked (black beans, kidney, chick peas or lentils): count as 1 complex carb, 1 protein	
1T	Peanut or almond butter: count as 1 protein, 1 fat	
4 oz.	Tofu	
1/4 C	Nuts/Seeds: count as 1 protein, 1 fat	
1/4 C	Hummus: count as 1 protein, 1 fat	
34 C	Hummus: count as 3 proteins, 2 fats	
1	Gardenburger: count as 3 proteins	
1	Meatless "Chick'N" Patty: count as 3 proteins	
6 oz. OR ¾ C	Greek yogurt: count as 2 protein OR 1 milk	
1 scoop	Protein powder: count as 3 protein	

**Combination Foods** provide a variety of exchanges. Here are some examples:

Measurements	Ingredient	Exchanges
1 slice	Pepperoni Pizza	1 complex carb, 2 protein, 1 fat
½ C	Chicken, Tuna, or Egg salad	3 protein 2 fats
4	Chicken Tenders	3 protein, 1 complex carb, 1 fat
1 C	Bean soup	1 complex carb, 1 protein
1 C	Creamy soup	1 complex carb, 1 fat
1 C	Chili	3 protein, 2 complex carbs
1/6	9" quiche	2 complex carbs, 3 protein, 2 fats
1 ½ C	Macaroni and cheese	2 complex carbs, 3 protein, 2 fats
9 small OR 5 large	Ravioli	2 complex carbs, 3 protein, 2 fats
4.5"x3.25"x2"	Meat Lasagna	2 complex carbs, 3 protein, 2 fats
1 C	Vegetable Lasagna	2 complex carbs, 2 protein, 1 fat
1	Beef and bean burrito	3 complex carbs, 2 protein, 1 fat
1	Egg roll	1 complex carb, 1 lean protein, 1 fat
1	Crispy chicken sandwich	3 complex carbs, 3 protein, 1 fat
1 large	Hamburger with cheese	2 complex carbs, 4 protein, 1 fat
1 small	French Fries order	3 complex carbs, 3 fats

**Fun Foods** may be higher in calories and/or fat and lower in nutrients, but they provide energy, enjoyment, and bring balance to healthy nutrition and eating patterns. One serving equivalents are listed here:

Measurements	Ingredient
4	Oreo cookies
2	Small/medium cookies
½ C	Regular ice cream
1	2" brownie
1 oz.	Bag of chips
½ C	Fruit cobbler or pie
1/12	Cheesecake
1	Donut
1/2	Breakfast pastry
1	Cupcake