Nutrients, Vitamins, and Minerals Daily Recommendations

Key: N = nonpregnant, P = pregnant, L = lactating (breastfeeding / chestfeeding) g = grams, mg = milligrams, mcg = micrograms; 1 g = 1000 mg, 1 mg = 1000 mcg, IU = international units

Nutrient	Important Functions	Major Sources	Comments	
Calories, Calorie Sources, and Fluids				
Calories	 Provide energy for 	Carbohydrates,	Your base calorie	
N: 2,450	tissue building,	fats, proteins	requirements (the N	
P: 2,450 (First	increased metabolic		number) vary	
trimester – no	requirements.		depending on your	
extra needed)			prepregnancy	
P: 2,790 (Second			weight, size, and	
trimester: add 340			activity level. For	
to pre-pregnancy)			customized	
P: 2,900 (Third			guidelines, see:	
trimester + 450)			https://www.myplate	
L: 2,750 (+300)			.gov/	
Carbohydrates	 Energy source 	Complex:	Focus on high-	
N: 130 g or more	 Fiber helps minimize 	whole grains,	quality, nutrient-	
P: 175 g)	constipation, maintain	legumes,	dense carbs that are	
L: 210 g	blood sugar levels.	starchy	high in fiber. Have	
(45-65% of		vegetables, nuts	fewer refined grains.	
calories)		Simple: refined	Minimize added	
		grains, fruits,	sugars.	
		milk products		
Fat	• Energy source	Best: Flaxseed	Essential fatty acids	
Total fat: 20-35%	• Essential for brain	oil, fish	(omega-3s) can	
of day's calories	growth and cognitive	Next best: Olive	lower risk of preterm	
(Max saturated	function.	oil. Soybeans,	labor and	
fat: 28g per day -	• Aids with absorption	nuts, seeds.	depression, and can	
less than 10% of	of vitamins A, D, E, K.	Avocado. Third	possibly lead to	
calories)		best: vegetable	shorter labor, less	
		oils like	gestational	
		sattlower,	hypertension, and	
		sunflower, corn	benefits for the	
		and peanut oil,	growing baby. Many	
		Minimize: dairy	experts recommend	
		fats, eggs, fat	supplements of 300	
		Avoid:	or more mg/day of	
		hydrogenated	omega-35.	
		oil shortening		
		lard		

Protein	Major structural	Meat, fish,	Fetal requirements
N: 46 g	component of all cells:	poultry, soy.	increase by about 1/3
P: 71 g	builds and repairs	eggs, milk,	in late pregnancy
L: 71 g	tissues.	cheese. dried	during the baby's
(10-35% of	• Helps build blood.	beans and peas.	biggest growth
calories)	amniotic fluid, and	lentils, peanut	period.
	placenta.	butter, nuts.	Perio a.
	• Helps form antibodies	whole grains	
Water and other	Carry nutrients to cells	Water juices	Minimize sugary
liquids	and carry waste products	milk Foods that	beverages like juice
~ 64 ounces	away for mother and	are high in	and soda and
0 T Ounces	baby	liquids: soup	caffeine
	• Provide fluid for	fruit	currente.
	increased blood tissue	munt.	
	and amniotic fluid		
	volume		
	• Aid digestion prevent		
	constinution excessive		
	swelling		
	• Prevent dehydration		
	which can lead to		
	premature labor		
Minerals	premature fabor.		
Winiciais			
Coloium	• Holng build bong and	Vagurt abassa	Dropotol witoming
Calcium	• Helps build bones and	Yogurt, cheese,	Prenatal vitamins
Calcium N/P/L:	 Helps build bones and teeth. Proper levels assist 	Yogurt, cheese, milk,	Prenatal vitamins often have little or
Calcium N/P/L: <18 yrs: 1,300 mg	 Helps build bones and teeth. Proper levels assist with transmission of 	Yogurt, cheese, milk, canned fish with bones	Prenatal vitamins often have little or no calcium, so if
Calcium N/P/L: <18 yrs: 1,300 mg 19–50 yrs: 1,000	 Helps build bones and teeth. Proper levels assist with transmission of perve impulses and 	Yogurt, cheese, milk, canned fish with bones, greens (collard	Prenatal vitamins often have little or no calcium, so if you're not getting calcium in your diet
Calcium N/P/L: <18 yrs: 1,300 mg 19–50 yrs: 1,000 mg	 Helps build bones and teeth. Proper levels assist with transmission of nerve impulses and muscle contractions 	Yogurt, cheese, milk, canned fish with bones, greens (collard, kale, bok choy	Prenatal vitamins often have little or no calcium, so if you're not getting calcium in your diet, you may need a
Calcium N/P/L: <18 yrs: 1,300 mg 19–50 yrs: 1,000 mg	 Helps build bones and teeth. Proper levels assist with transmission of nerve impulses and muscle contractions. Important in blood 	Yogurt, cheese, milk, canned fish with bones, greens (collard, kale, bok choy, chard spinach	Prenatal vitamins often have little or no calcium, so if you're not getting calcium in your diet, you may need a
Calcium N/P/L: <18 yrs: 1,300 mg 19–50 yrs: 1,000 mg	 Helps build bones and teeth. Proper levels assist with transmission of nerve impulses and muscle contractions. Important in blood elotting 	Yogurt, cheese, milk, canned fish with bones, greens (collard, kale, bok choy, chard, spinach, other groons)	Prenatal vitamins often have little or no calcium, so if you're not getting calcium in your diet, you may need a calcium supplement as wall. Calcium
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Calcium N/P/L: <18 yrs: 1,300 mg 19–50 yrs: 1,000 mg Phosphorus N/P/L ·	 Helps build bones and teeth. Proper levels assist with transmission of nerve impulses and muscle contractions. Important in blood clotting. Some evidence suggests that inadequate calcium is associated with hypertension in pregnancy. Helps build bones and teeth 	Yogurt, cheese, milk, canned fish with bones, greens (collard, kale, bok choy, chard, spinach, other greens) tofu (with calcium sulfate), sesame seeds, almonds, fortified juice and milk substitutes.	Prenatal vitamins often have little or no calcium, so if you're not getting calcium in your diet, you may need a calcium supplement as well. Calcium carbonate is best.
Calcium N/P/L: <18 yrs: 1,300 mg 19–50 yrs: 1,000 mg Phosphorus N/P/L: <18 yrs: 1,250 mg	 Helps build bones and teeth. Proper levels assist with transmission of nerve impulses and muscle contractions. Important in blood clotting. Some evidence suggests that inadequate calcium is associated with hypertension in pregnancy. Helps build bones and teeth. Maintains healthy 	Yogurt, cheese, milk, canned fish with bones, greens (collard, kale, bok choy, chard, spinach, other greens) tofu (with calcium sulfate), sesame seeds, almonds, fortified juice and milk substitutes. Milk, cheese, lean meats, peas	Prenatal vitamins often have little or no calcium, so if you're not getting calcium in your diet, you may need a calcium supplement as well. Calcium carbonate is best.
Calcium N/P/L: <18 yrs: 1,300 mg 19–50 yrs: 1,000 mg Phosphorus N/P/L: <18 yrs: 1,250 mg 19–50 yrs: 700	 Helps build bones and teeth. Proper levels assist with transmission of nerve impulses and muscle contractions. Important in blood clotting. Some evidence suggests that inadequate calcium is associated with hypertension in pregnancy. Helps build bones and teeth. Maintains healthy blood pH levels (acid.) 	Yogurt, cheese, milk, canned fish with bones, greens (collard, kale, bok choy, chard, spinach, other greens) tofu (with calcium sulfate), sesame seeds, almonds, fortified juice and milk substitutes. Milk, cheese, lean meats, peas	Prenatal vitamins often have little or no calcium, so if you're not getting calcium in your diet, you may need a calcium supplement as well. Calcium carbonate is best.
Calcium N/P/L: <18 yrs: 1,300 mg 19–50 yrs: 1,000 mg Phosphorus N/P/L: <18 yrs: 1,250 mg 19–50 yrs: 700	 Helps build bones and teeth. Proper levels assist with transmission of nerve impulses and muscle contractions. Important in blood clotting. Some evidence suggests that inadequate calcium is associated with hypertension in pregnancy. Helps build bones and teeth. Maintains healthy blood pH levels (acid- base balance) 	Yogurt, cheese, milk, canned fish with bones, greens (collard, kale, bok choy, chard, spinach, other greens) tofu (with calcium sulfate), sesame seeds, almonds, fortified juice and milk substitutes. Milk, cheese, lean meats, peas	Prenatal vitamins often have little or no calcium, so if you're not getting calcium in your diet, you may need a calcium supplement as well. Calcium carbonate is best. Calcium and phosphorus exist in a constant ratio in the blood. Excess phosphorus limits
Calcium N/P/L: <18 yrs: 1,300 mg 19–50 yrs: 1,000 mg Phosphorus N/P/L: <18 yrs: 1,250 mg 19–50 yrs: 700 mg	 Helps build bones and teeth. Proper levels assist with transmission of nerve impulses and muscle contractions. Important in blood clotting. Some evidence suggests that inadequate calcium is associated with hypertension in pregnancy. Helps build bones and teeth. Maintains healthy blood pH levels (acidbase balance). 	Yogurt, cheese, milk, canned fish with bones, greens (collard, kale, bok choy, chard, spinach, other greens) tofu (with calcium sulfate), sesame seeds, almonds, fortified juice and milk substitutes. Milk, cheese, lean meats, peas	Prenatal vitamins often have little or no calcium, so if you're not getting calcium in your diet, you may need a calcium supplement as well. Calcium carbonate is best. Calcium and phosphorus exist in a constant ratio in the blood. Excess phosphorus limits the use of calcium
Calcium N/P/L: <18 yrs: 1,300 mg 19–50 yrs: 1,000 mg Phosphorus N/P/L: <18 yrs: 1,250 mg 19–50 yrs: 700 mg	 Helps build bones and teeth. Proper levels assist with transmission of nerve impulses and muscle contractions. Important in blood clotting. Some evidence suggests that inadequate calcium is associated with hypertension in pregnancy. Helps build bones and teeth. Maintains healthy blood pH levels (acidbase balance). 	Yogurt, cheese, milk, canned fish with bones, greens (collard, kale, bok choy, chard, spinach, other greens) tofu (with calcium sulfate), sesame seeds, almonds, fortified juice and milk substitutes. Milk, cheese, lean meats, peas	Prenatal vitamins often have little or no calcium, so if you're not getting calcium in your diet, you may need a calcium supplement as well. Calcium carbonate is best. Calcium and phosphorus exist in a constant ratio in the blood. Excess phosphorus limits the use of calcium.
Calcium N/P/L: <18 yrs: 1,300 mg 19–50 yrs: 1,000 mg Phosphorus N/P/L: <18 yrs: 1,250 mg 19–50 yrs: 700 mg Iron N: 15–18 mg	 Helps build bones and teeth. Proper levels assist with transmission of nerve impulses and muscle contractions. Important in blood clotting. Some evidence suggests that inadequate calcium is associated with hypertension in pregnancy. Helps build bones and teeth. Maintains healthy blood pH levels (acidbase balance). Helps to ensure red blood cell quantity and 	Yogurt, cheese, milk, canned fish with bones, greens (collard, kale, bok choy, chard, spinach, other greens) tofu (with calcium sulfate), sesame seeds, almonds, fortified juice and milk substitutes. Milk, cheese, lean meats, peas	Prenatal vitamins often have little or no calcium, so if you're not getting calcium in your diet, you may need a calcium supplement as well. Calcium carbonate is best. Calcium and phosphorus exist in a constant ratio in the blood. Excess phosphorus limits the use of calcium. Needed to provide adequate iron stores

P: 27 mg L: 9–10 mg	 quality. Carries oxygen to baby and to every cell in your body. Deficiency (anemia) can lead to fatigue, preterm delivery, low birth weight. 	yolks, poultry, fish, raisins and prunes, enriched breads and cereals, leafy vegetables, milk, legumes.	for baby. Vitamin C enhances absorption of iron. If taking iron supplements, you may want to also take supplements of 15 mg zinc, 2 mg copper as iron blocks absorption of these.
Zinc N: 8 mg P: 11–12 mg L: 12–13 mg	 Component of insulin Important in growth of skeleton and nervous system. Deficiency associated with labor complications 	Meat, liver, eggs, seafood (especially oysters)	Deficiency has been associated with poor fetal growth and development.
Sodium N/P/L: 1,500—2,300 mg	Sodium maintains the fluid balance in the body.	Naturally occurring in foods. Some prepared foods have excessive amounts.	If you eat a lot of prepared foods, check the labels to make sure you don't overload on sodium.
Iodine N: 150 mcg P: 220 mcg L: 290 mcg	• Important in thyroid function, and for the baby's developing brain and nervous system.	Seafoods, iodized salt	Deficiency may cause goiter in mother and developmental disorders in infants.
Choline N: 425 mg P: 450 mg L: 550 mg	• Helps your baby's brain and spine develop.	Eggs, meat, poultry, seafood, dried beans, peas, lentil, soy, peanuts	
Magnesium N/L: <18 yrs: 360 mg 19–50 yrs: 310- 320 mg P: <18 yrs: 400 mg >19: 350 mg	 Helps with cell energy and protein metabolism. Enzyme activator Helps tissue and nerve growth and function; development of healthy bones and teeth. 	Green leafy vegetables, meat, nuts, soy, seeds, brown rice, wheat germ, and oatmeal.	Most is stored in bones. Deficiency may cause neuromuscular dysfunction. Supplements may help treat nighttime leg cramps.
Potassium N: 4,700 mg/day P: 2900 mg L: 2,500-2,800	 Maintains fluid volume of cells. Aids healthy function of heart, kidney, 	Leafy greens, fruit from vines, root vegetables (carrots,	Potassium appears to affect the levels of other minerals, such as calcium and

	muscles, nerves, and	parsnips,	sodium.
	digestive system.	turnips),	
	• May help reduce risk	bananas, dairy,	
	of osteoporosis.	meat	
Fat-Soluble Vitami	ns		
Vitamin A	• Helps growth and	Liver, fish oils,	Excessive amounts
N: 700 mcg	development of bones,	dairy products,	(over 3,000
P: 770 mcg	teeth, gums, vision.	eggs, orange	mcg/10,000 IU) in
L: 1,300 mcg	 Maintains skin and 	vegetables	the first 7 weeks of
Max safe level:	mucous membranes.	(pumpkins,	pregnancy increase
3,000 mcg	• Helps protect against	yams, sweet	the risk of birth
	infection.	potato, squash,	defects.
		carrots), dark	
		green	
		vegetables.	
Vitamin D	• Aids absorption of	Sunlight	Your caregiver may
N/	calcium and phosphorus	(vitamin D is	recommend a
P/L: 600 IU	from the blood.	made by the	supplement of 400
(equal to 15 mcg)	• Needed for	body with	IU per day.
If you have dark	mineralization of bones	exposure to	Supplements with
skin and/or	and teetn.	sunlight on skin	vitamin D3 are more
minimal sun	• Deficiency can cause	-at least 10-15	effective than D2
exposule, you	and fotal malformations	direct suplicht	and better for most
dose	• Deficiency associated	to hands, face	choose D2 because
uose.	with low birth weight	or arms 3 times	D3 is derived from
	with low birth weight.	or arms 5 times	an animal source
		fortified milk	
		fish liver oils	
		fatty fish, egg	
		volks	
Vitamin E	Needed for tissue	Vegetable oils.	Enhances absorption
N/P: 15 mg	growth and for the	whole grains.	of vitamin A. It is an
L: 19 mg	developing nervous	meat, eggs,	antioxidant.
5	system.	milk, nuts,	
	• Protects cell wall	seeds	
	integrity.		
Vitamin K	Essential for blood	Leafy green	Produced in the
N/P/L: <18 yrs:	clotting.	vegetables	body by intestinal
75 mcg			flora.
19–50 yrs: 90			
mcg			
Water-Soluble Vita	mins		1
Folic acid (folate)	• Helps to form blood	Fortified	Supplements
N: 400 mcg	cells and the DNA and	cereals, breads	recommended for all
P: 600 mcg	RNA inside all cells.	and pastas and	women of

L: 500 mcg	Needed for metabolism	naturally occurs	childbearing age.
8	of amino acids and	in legumes.	Low folate can cause
	protein synthesis.	green leafy	anemia, preterm
	• May help prevent	vegetables.	delivery, and neural
	stroke, colon and breast	citrus fruit.	tube defects (1 in
	cancer	whole wheat	3 000 pregnancies)
		bread	s,000 pregnaneres).
Thiamin (B1)	• Helps convert food to	Whole grains	
$N \cdot 10 - 11 mg$	energy	fortified grain	
$P/I \cdot 1/I mg$	• Plays a role in	products	
17L. 1.7 IIIg	initiating nerve	(breads	
	impulses	(orcaus,	
	• Helps maintain healthy	organ meats	
	blood sugar	organ meats,	
Dibeflorin (D2)	• Eccentical for energy	Organ maata	
$\frac{\text{RIDOIIaVIII}(\text{B2})}{\text{N}_{1} + 1} = \frac{1}{2}$	• Essential for energy	Organ meats,	
N: 1.0–1.1 mg	and metabolism of	milk products,	
P: 1.4 mg	protein, fat, and	whole and	
L: 1.6 mg	carbonydrates.	fortified grains	
Niacin (B3)	• Helps release energy	Meats, peanuts,	
N: 14 mg	from carbohydrates.	fortified cereals,	
P: 18 mg	• Needed for protein	whole grains,	
L: 17 mg	metabolism.	beans, peas	
	• Aids production of		
	lipids, hormones, and		
	red blood cells.		
Vitamin B6	• Important in amino	Chicken, fish,	May help reduce
(Pyridoxine)	acid metabolism and	organ meats,	nausea in early
N: 1.2–1.5 mg	protein synthesis.	pork, eggs,	pregnancy.
P: 1.9 mg	• Important in	whole grains,	(Research trials have
L: 2.0 mg	production of serotonin,	wheat germ,	used 3 doses per
Max: 100 mg	other neurotransmitters.	soybeans,	day, with each dose
	• Deficiency can lead to	walnuts,	being 10-25 mg.)
	depression, neurological	legumes,	
	disorders.	cabbage, beets,	
	• Improves immunity.	oranges.	
Vitamin B12	• Essential in protein	Animal	Deficiency leads to
(Cobalamin)	metabolism and tissue	products: organ	anemia and central
N: 2.4 mcg	synthesis.	meats, milk	nervous system
P: 2.6 mcg	• Important in formation	products, clams,	damage. All vegans
L: 2.8 mcg	of red blood cells.	oysters, eggs.	should take a B12
_	• Maintains nerve fibers.	Fortified	supplement. B12
	• Necessary for	soymilks, tofu,	may help relieve
	activation of folic acid	and cereal.	depression.
Pantothenic acid	• Helps convert food	Meats, potatoes.	-
N: 5 mg	into energy.	oats, tomatoes,	
P / L: 7 mg	• Aids production of	organ meats,	

	lipids, hormones, and	broccoli	
	neurotransmitters.		
Biotin	• Aids energy	Liver, egg	
N: 30 mcg	metabolism.	yolks, soybeans,	
P: 35 mcg	• Synthesizes and breaks	yeast	
L: 35 mcg	down fatty acids.		
Vitamin C	• Helps tissue formation.	Citrus fruits,	Megadoses of
N: 65–75 mg	• Is "cement" substance	berries, melons,	vitamin C have not
P: 80–85 mg	in connective and	tropical fruits.	been proven
L: 115-120 mg	vascular tissue,	Veggies:	effective in reducing
Smokers: add 35	strengthens blood	tomatoes,	incidence of colds,
mg	vessels.	peppers,	though supplements
	 Promotes iron 	broccoli,	may reduce duration
	absorption.	brussels	or severity of cold.
	Aids in healing	sprouts,	
	wounds; resisting	cabbage,	
	infection, maintaining	cauliflower,	
	healthy tissues.	watercress,	
		potatoes.	

These are all accurate for a 30 year old female who is 5'4" and whose pre-pregnancy weight is 160. Some values do adjust slightly for people of different sizes, ages, and gender.

Sources for General Recommendations:

The U.S. Department of Health and Human Services and the U.S. Department of Agriculture, [I]Dietary Guidelines for Americans[I], (2020 – 2025). https://www.dietaryguidelines.gov/resources/2020-2025-dietary-guidelines-online-materials

Food and Nutrition Board, Institute of Medicine, "Dietary Reference Intakes (DRIs): Recommended dietary allowances and adequate intakes." (2011) <u>https://www.ncbi.nlm.nih.gov/books/NBK56068/</u>