Vitamin	Role in the body	Recommended daily amount for adults	Best sources
A (retinol, carotene)	 growth and tissue repair immune system functions vision 	Males: 900 μg Females: 700 μg	 liver eggs dark green & yellow fruits and vegetables dairy products
B1 (thiamin)	 ▶ processing of carbohydrates and amino acids (protein) ▶ appetite regulation ▶ nervous system functions 	Males: 1.2 mg Females: 1.1 mg	 wheat germ pork whole & enriched grains beans peas
B2 (riboflavin)	 processing of carbohydrates, proteins & fats cell respiration and maintenance anti-oxidant activity 	Males: 1.3 mg Females: 1.1 mg	 ▶ dairy products ▶ green leafy vegetables ▶ legumes ▶ beef ▶ salmon ▶ almonds ▶ eggs
B3 (niacin, nicotinic acid)	 processing of carbohydrates, proteins & fats energy metabolism DNA repair nerve function circulation of blood 	Males: 16 mg Females: 14 mg	 ▶ meat ▶ fish ▶ whole & enriched grains ▶ beans ▶ peas ▶ nuts
B5 (pantothenic acid)	 converting nutrients into energy vitamin utilization production of many important compounds used by the body 	Males: 5 mg Females: 5 mg	 ▶ whole-grain cereals ▶ legumes ▶ meats ▶ avocado ▶ sweet potato

Vitamin	Role in the body	Recommended daily amount for adults	Best sources
B6 (pyridoxine, pyridoxal, pyridoxamine)	 processing of carbohydrates, proteins & fats red blood cell formation cardiovascular health formation of antibodies & neurotransmitters 	Males: 1.3–1.7 mg Females: 1.3–1.5 mg	 ▶ fish ▶ poultry ▶ red meat ▶ whole grains ▶ fortified cereal ▶ potatoes ▶ spinach
B12 (cobalamin)	 converting proteins & fats into energy nervous system functions formation of blood cells cardiovascular health 	Males: 2.4 μg Females: 2.4 μg	 ▶ lean beef ▶ fish ▶ poultry ▶ eggs ▶ dairy products ▶ clams
Folate (folic acid)	 ▶ cell division and growth ▶ DNA synthesis ▶ red blood cell formation ▶ processing of proteins 	Males: 400 μg Females: 400 μg* *Pregnancy: 600 μg	 ▶ green leafy vegetables ▶ dried beans ▶ fortified cereals ▶ oranges ▶ pasta ▶ rice
C (ascorbic acid)	 anti-oxidant activity collagen maintenance wound healing infection resistance healthy gums and blood vessels 	Males: 90 mg Females: 75 mg	 citrus fruits tomatoes green & red peppers melons berries broccoli

Vitamin	Role in the body	Recommended daily amount for adults	Best sources
D (calciferol)	 bone & tooth formation immune functions mineral balance (calcium and phosphorous) 	Males: 400–600 IU Females: 400–600 IU	 egg yolk salmon sardines fortified milk Vitamin D is produced in the skin when exposed to sunlight
E (α-tocopherol)	 anti-oxidant activity (free radical scavenger) possible immune system support 	Males: 15 mg Females: 15 mg	 vegetable & nut oils wheat germ dark green vegetables nuts whole grains
K	▶ blood clotting▶ bone metabolism	Males: 120 μg Females: 90 μg	 ▶ green leafy vegetables (e.g., spinach, broccoli, collards) ▶ olive oil ▶ soybean oil
H (biotin, vitamin B7)	 cell growth production of fatty acids processing of fats and amino acids maintain blood sugar levels strengthen hair and nails 	Males: 30 μg Females: 30 μg	 ▶ liver ▶ eggs ▶ meat ▶ wheat bran ▶ cheese ▶ yeast ▶ avocado

Mineral	Role in the body	Recommended daily amount for adults	Best sources
calcium	 support and formation of bones, and teeth regulates heartbeat, muscle action, nerve function & blood clotting 	Males: 1000–1200 mg Females: 1000–1200 mg	 ▶ low-fat or nonfat milk products ▶ cheese ▶ red beans ▶ spinach ▶ broccoli ▶ rhubarb ▶ kale ▶ calcium-set tofu
chromium	 needed for using glucose as an energy source increases effectiveness of insulin metabolizes fat and protein 	Males: 30–35 μg Females: 20–25 μg	 ▶ whole grains ▶ peas ▶ beans ▶ beef ▶ processed turkey ▶ broccoli
copper	 ▶ formation of red blood cells ▶ needed for bone health ▶ iron metabolism ▶ involved in the normal function of the nervous system ▶ anti-oxidant activity 	Males: 900 μg Females: 900 μg	 ▶ organ meats ▶ shellfish ▶ nuts ▶ seeds ▶ oysters ▶ cocoa powder ▶ whole grain products

Mineral	Role in the body	Recommended daily amount for adults	Best sources
fluoride	 prevention of tooth decay stimulates new bone formation 	Males: 4 mg Females: 3 mg	 ▶ seafood ▶ tea ▶ grape juice ▶ Fluoridated water (and food prepared in fluoridated water) and fluoridated water) and fluoridated dental products (e.g., toothpaste) will contain fluoride
iodine	▶ thyroid functioning	Males: 150 μg Females: 150 μg	 iodized salt cod shrimp cow's milk potatoes
iron	 ▶ formation of components of red blood cells that supply and transport oxygen ▶ DNA synthesis ▶ anti-oxidant activity 	Males: 8 mg Females: 18 mg* *post-menopausal women: 8 mg/day	 red meat poultry fish liver beans whole & enriched grains green leafy vegetables tofu oysters
magnesium	 enzyme activation nerve & muscle function bone structure energy production 	Males: 420 mg Females: 320 mg	 ▶ nuts ▶ beans ▶ green leafy vegetables ▶ whole & enriched grains ▶ bran cereal ▶ spinach ▶ banana

Mineral	Role in the body	Recommended daily amount for adults	Best sources
manganese	 bone growth & development wound healing metabolism of carbohydrates, amino acids, and cholesterol anti-oxidant activity 	Males: 2.3 mg Females: 1.8 mg	 ► nuts ► whole grains ► tea ► coffee ► bran ► legumes ► pineapple
molybdenum	 biological reactions processing of sulfur- containing amino acids, drugs, and toxins 	Males: 45 μg Females: 45 μg	 ▶ beans ▶ lentils ▶ peas ▶ grain products ▶ nuts
phosphorous	 bone structure energy production and storage 	Males: 700 mg Females: 700 mg	 ▶ dairy products ▶ meats ▶ fish ▶ eggs ▶ beans ▶ whole grains
potassium	 ▶ fluid balance ▶ normal body function ▶ heart activity ▶ muscle contraction ▶ nervous system functions 	Males: 4.7 g Females: 4.7 g	 ▶ orange juice ▶ potatoes ▶ bananas ▶ tomato juice ▶ soybeans ▶ apricots ▶ plums

Mineral	Role in the body	Recommended daily amount for adults	Best sources
sodium	 maintenance of blood volume and blood pressure transmission of nerve impulses heart activity muscle contraction various internal functions 	Males: 1.5 g Females: 1.5 g	 ▶ table salt ▶ processed meats (e.g., bacon, sausage, ham) ▶ canned soups and vegetables ▶ worcestershire sauce ▶ soy sauce ▶ onion salt ▶ garlic salt ▶ bouillon cubes
selenium	 ▶ anti-oxidant activity ▶ regulation of thyroid hormone 	Males: 55 μg Females: 55 μg	 cereals (e.g., corn, wheat, and rice) brazil nuts walnuts pork poultry eggs shrimp halibut crab meat
zinc	 taste & smell sensitivity growth and development healing immune system function 	Males: 11 mg Females: 8 mg	 ▶ lean meat ▶ oysters ▶ eggs ▶ seafood ▶ yeast-containing whole grains ▶ low-fat milk products