Vitamins and Minerals

Mineral	What it does	Good food sources	Effects of deficiency	Manganese	Helps bone growth	Nuts, legumes, whole	Deficiency is rare but
Calcium	Builds and protects bones and teeth. Helps with muscle contractions and relaxation, blood clotting, and nerve impulse transmission. Plays a role in hormone secretion and enzyme activation. Helps maintain healthy blood pressure		Muscle cramps, brain function, rickets in children; (soft bones) and osteoporosis in adults.		and cell production. Helps metabolize amino acids, cholesterol, and carbohydrates	grains, tea	could include dermatitis, problems metabolizing carbohydrates, poor memory, nervous irritability, fatigue, blood sugar problems, heavy menstrual periods, fragile bones
				Phosphorus	With calcium builds bones and teeth. Needed for metabolism, body chemistry, nerve and muscle function	Chicken Breast, Milk, Lentils, Egg Yolks, Nuts, Cheese	Deficiency is rare but could include weakness; bone pain; anorexia
Chromium	Enhances the activity of insulin, helps maintain normal blood	Meat, poultry, fish, some cereals, nuts, cheese	Can affect the potency of insulin in regulating ugar balance.				
	glucose levels, and is needed to free energy from glucose			Potassium	Balances fluids in the body. Helps maintain steady heartbeat and	Peanuts, Bananas, Orange Juice, Green Beans, Mushrooms, Oranges, Broccoli, Sunflower Seeds.	Nausea, anorexia, muscle weakness, irritability, depression, fatigue, hypertension, decreased heart rate.
Copper	Plays an important role in iron metabolism. Helps make red blood cells	Liver, shellfish, nuts, seeds, whole-grain products, beans, prunes	Anemia, hair problems, dry skin, vitamin C deficiency		send nerve impulses. Needed for muscle contractions. A diet rich in potassium		
Fluoride (Fluorine)	Encourages strong bone formation. Keeps dental cavities from starting or worsening	Water that is fluoridated, toothpaste with fluoride, marine fish, teas	Weak teeth and bones.		seems to lower blood pressure. Getting enough potassium from your diet may		
Iodine	Part of thyroid hormone, which helps set body temperature and influences nerve and muscle function, reproduction, and growth. Prevents goiter and a congenital thyroid disorder Helps the blood and	Seafood, seaweed, dairy, products, iodized, salt	Enlargement of the thyroid gland.	Sodium	benefit bones Balances fluids in the body. Helps send nerve impulses. Needed for muscle contractions. Impacts blood pressure; even modest reductions in salt consumption can lower blood pressure	Salt, soy sauce, processed foods,	Fatigue, apathy, and nausea as well as cramps in the muscles of the extremities
Iron	muscles carry oxygen to the body.	Liver, red meat, egg yolk, legumes, whole / enriched grains, dark green vegetables	Tiredness and lethargy, feelings of weakness, insomnia, palpitations, headaches, shortness of breath, difficulty concentrating, brittle nails, cracked lips	Zinc	Helps wounds to heal and aids taste and smell sensory.	Red meat, poultry, oysters and some other seafood, fortified cereals, beans, nuts	Slow healing of wounds; loss of taste; retarded growth and delayed sexual development in children.
Magnesium	Helps muscles work, aids metabolism and aids bone growth.	Green vegetables such as spinach and broccoli, legumes, cashews, sunflower seeds and other seeds, halibut, whole-wheat bread, milk	Fatigue, numbness, poor memory, muscle twitching and irritability, tingling, rapid heartbeat.				