Vitamins Why they are important? Vitamin D: Works with calcium to build and maintain Vitamin A: Maintains hair and skin. healthy bones and teeth. Helps prevent night blindness Food Sources: Orange and Dark Source: Sunlight or fortified milk Green vegetables, dairy products, and fish oils Vitamin C: Aids in wound healing, cell Vitamin E: Protects membranes and function, formation of collagen, and iron red blood cells. absorption. Food Sources: Vegetable oils, whole Source: Citrus Fruit, green leafy vegetables, grains, most fruits and vegetables, nuts, broccoli, peppers, and tomatoes and seeds. Riboflavin (B2): Converts food into Vitamin K: Aids in blood clotting. energy. Food Sources: Dark green leafy Food Sources: Milk, cheese, whole vegetables or liver. grains, green leafy vegetables Thiamin (B1): Helps nerve tissue, Folate/Folic Acid (B9): Helps form digestive system, and energy. red and white blood cells, RNA, and Source: Milk, whole grains, pork Food Sources: Beans, peas, lentils, green leafy vegetables, and whole grains. Niacin (B3): Converts food into energy.

Source: Milk, whole grains, legumes, fish, and poultry.



Vitamins Cont'd

Disease			Vitamin	
Night Blindness, Poor Eyesight: Eyes become sensitive to light and have difficulty seeing in dim light.			Vitamin A	
Beriberi: Swelling of the heart, numbness of hands and feet, mental confusion.			Thiamin (B1)	
Pellagra: Skin irritations, digestive problems, and swelling of the tongue. If not treated, can result in mental disorder or death.			Niacin	
Spina Bifida: A birth defect that occurs when the spine and spinal cord don't form properly in the womb.			Folic Acid/Folate	
Scurvy: Weakness, anemia, gum disease, and skin problems. It was a common disease of sailors on long sea voyages without fresh fruit/veg.			Vitamin C	
Rickets: Bones become weak and soft. This can result in bone deformities in growing children.			Vitamin D	
Jaundice: A yellowing of the skin or whites of the eyes caused by a build-up of the pigment bilirubin. Jaundice occurs when bilirubin builds up faster than the liver can break it down.			Excessive Vitamin K	
B Vitamins:		P sp	Treatment: Phototherapy is a treatment with a special light that helps rid the body bilirubin.	
vitamins	vitamins			
A, D, E,	, D, E, C and All B		r water-soluble vitamins ored in the body?	
K Vitamins dissolve in fat.	Vitamins dissolve in water.	Fat-solu	Fat-soluble	
Body can store them, excessive amounts can be toxic.	Body uses what it needs and excretes the rest in urine.			

Minerals Why they are important?



Minerals cont'd

Best source of calcium:

Dairy Products

Best source of iron:

Meat

Disease	Mineral Deficiency
Osteoporosis: When bones gradually lose their minerals. They become fragile and break easily and skeleton may shrink.	Calcium
Anemia: Poor appetite, pale skin, fatigue and weakness caused by a decreased number of circulating red blood cells in the body.	Iron
Goiter: An abnormal enlargement of the thyroid gland at the base of the neck.	Iodine

Three things that destroy vitamins and minerals.

I. Heat

2. Water

3. Air



Vocabulary:

Toxicity: Too much of something (toxic/poisonous

Deficiency: Not enough of something (shortage).

Macro Minerals: Minerals needed in larger quantities

Micro Minerals: Essential minerals needed in smaller