

**GRADE 3**

**TEACHER BACKGROUND INFORMATION**

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**GROWTH AND DEVELOPMENT**

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## MAJOR BODY ORGANS AND SYSTEMS

**Cells** are the basic building blocks of the body. There are many kinds of cells (e.g., muscle, bone, skin, etc.) The adult body contains trillions of cells.

**Tissues** are groups of like cells that have a specific function.

**Organs** are made up of tissues and have a specific function.

The major body organs are:

1. BRAIN - nervous system  
Function - regulates thinking, memory, balance, coordination
2. LUNGS - respiratory system  
Function - provide air and oxygen for the body and exchange it for body wastes (carbon dioxide)
3. HEART - circulatory system  
Function - pumps blood with nutrients and oxygen to all parts of the body
4. STOMACH AND INTESTINES - digestive system  
Function - change food into forms that can be used by the body and eliminate wastes

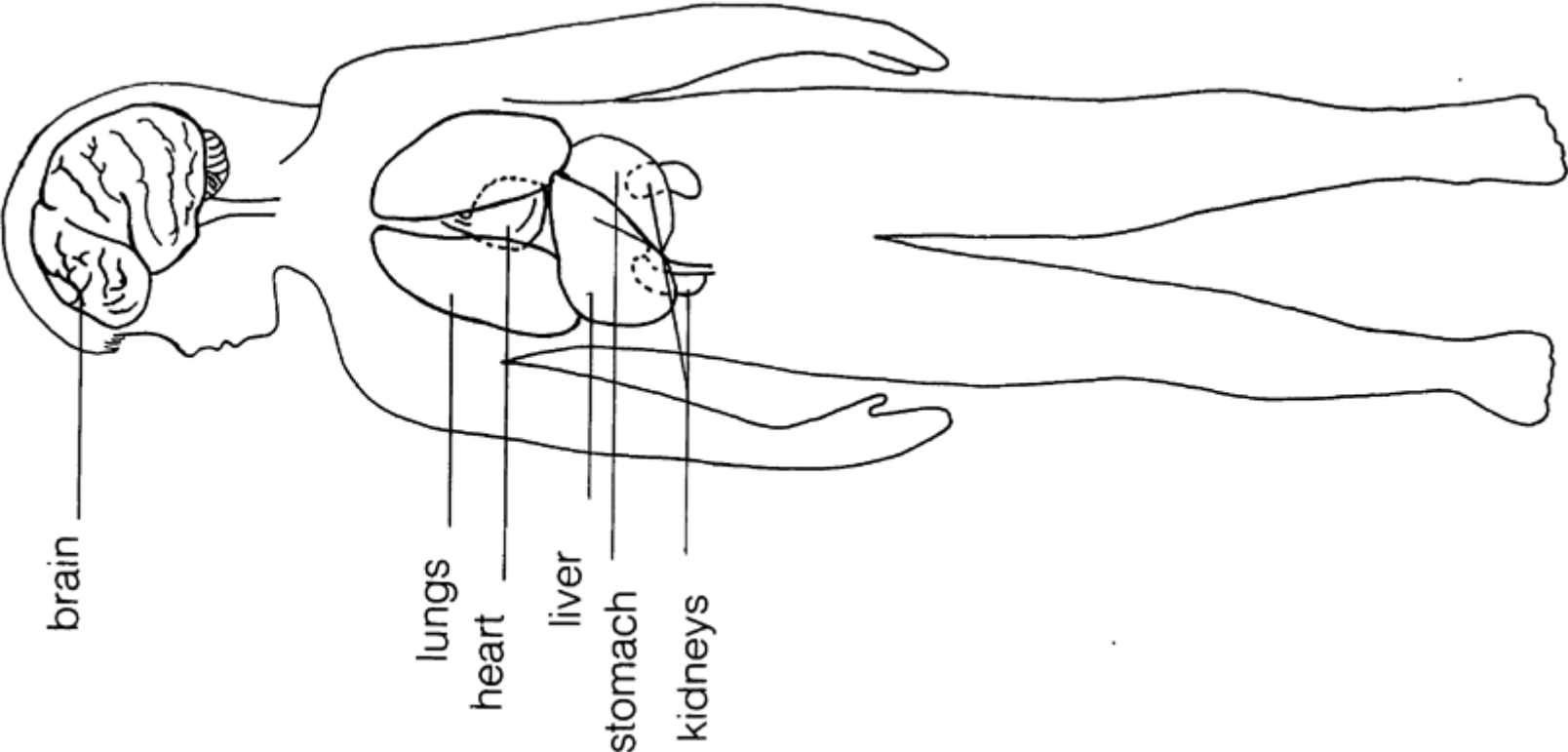
5. LIVER - digestive system  
Function - breaks down chemicals, cleans the body of harmful wastes; aids in digestion of fats, stores energy (in the form of glycogen)
6. KIDNEYS AND BLADDER - excretory system  
Function - remove liquid wastes from the blood and produce urine which is stored and later removed from the urinary bladder.

Related organs are grouped into a body system. For example, the heart, veins, arteries, capillaries are organs of the circulatory system.

Eleven body systems work together to carry out the many functions of daily living.

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|--------------------------------|------------------------|
| 1. Digestive System            |                        |
| 2. Circulatory System          |                        |
| 3. Respiratory System          | SUPPLY AND TRANSPORT   |
| 4. Excretory System            |                        |
| 5. Immune System               |                        |
| 6. Muscular System             |                        |
| 7. Skeletal System             | SUPPORT AND PROTECTION |
| 8. Integumentary (Skin) System |                        |
| 9. Endocrine System            | CONTROL AND REGULATION |
| 10. Nervous System             |                        |
| 11. Reproductive System        | REPRODUCTION           |

# BODY ORGANS



## COMMON COMMUNICABLE CHILDHOOD DISEASES

Childhood Diseases	Signals	Childhood Diseases	Signals
Red Measles	Tired and uncomfortable, running nose, fever, pains in back and head, small white dots on the gums, rash at the hairline spreading down the body, spots may run together to form blotches	Common Cold	Running nose, sneezing, stuffy feeling, slight headache, watering of eyes, general aching and listlessness, slight fever
German Measles (RUBELLA)	Slight cold, some fever, sore throat, lymph nodes swell, rash on face and scalp, then to body and arms, spots do not run together - rash fades in 2-3 days	Ear Infection	Severe pain, fever, draining of the ear
Mumps	Swelling of glands in the neck, pain, tenderness, fever, loss of appetite, back pains, headache	Influenza (Flu)	Fever, chills, headache, sore throat, cough, intestinal disorders, muscular pain
Chicken Pox	Slight fever, headache, backache, loss of appetite, small red spots on the back or chest, spots enlarge and a vesicle of clear fluid appears, itchy	Lice (Pediculosis) (Head Lice)	Visible white specks in the hairs of the back of the head, glands behind ears and back of the neck are enlarged, itching
Strep Throat	Sore throat, headache, red pharynx, enlarged tonsils, flushed face	Scabies	Intense itching, more often at night, usually one month after initial infection

## COMMON COMMUNICABLE CHILDHOOD DISEASES

Childhood Diseases	Signals
Impetigo	Thin walled vesicle which ruptures and is covered by a honey-yellow crust, spreads in circles on exposed parts of the body
Meningitis	Headache, vomiting, nausea, stiff neck, chills, fever, irritability, confusion and later convulsions
Tuberculosis (TB)	Fatigue, weight loss, night sweating, afternoon temperature elevation, productive cough, bloodtinged sputum

Source: Physical Well-Being Teaching Aids,  
Manitoba Education, 1986