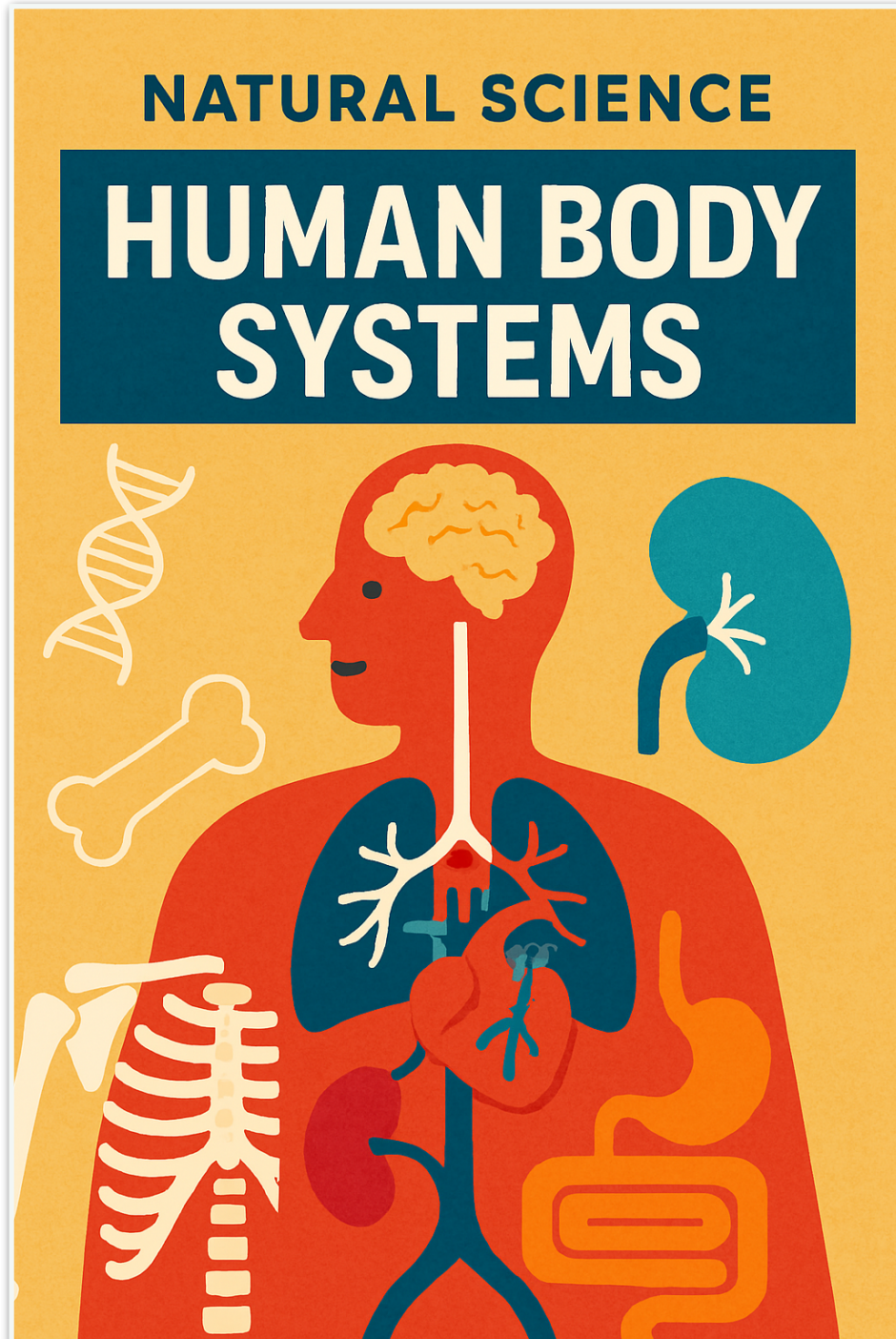


Unit 4 - Reproductive System

Natural Sciences, 6th Grade



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1. Puberty and Adolescence

- Changes during puberty:
- Men: Lower voice, more body hair, Adam's apple development.
- Women: Breast development, higher voice, less body hair, wider hips.
- Both genders: Increased sweating, body odor, oily skin, and acne.
- Reproductive system maturity during adolescence.

2. Human Reproductive Systems

- Internal fertilization through sexual intercourse.
- Process of fertilization and gestation leading to labor.
- Parental care, including breastfeeding.
- Functions of reproductive systems:
- Female: Produce egg cells, protect and nourish offspring.
- Male: Produce and deposit sperm.

3. Female Reproductive System

- Structure: Vulva, vagina, uterus, ovaries, fallopian tubes.
- Hormones and menstruation: Estrogen's role in ovum development.
- External parts: Vulva, labia, clitoris.
- Internal parts: Uterus (gestation and blood flow), ovaries (hormone regulation and egg production).

4. Male Reproductive System

- Structure: Penis, testicles, vas deferens, prostate, seminal vesicles.
- Function: Sperm production, storage, and deposition.
- Hormones: Role of testosterone in sperm development and secondary sexual characteristics.

5. Sexual Intercourse

- Phases:
- Excitation phase: Stimuli and physiological changes.
- Sexual encounter: Increased heart rate, breathing, and muscle tension.
- Description of male and female responses during intercourse.

6. Sperm's Journey to the Egg

- Sperm maturation and changes for fertilization.
- Obstacles in the female reproductive tract: Vaginal pH, immune system response, physical barriers.
- Supportive roles of the egg and female anatomy.
- Fertilization: The fusion of sperm and egg nuclei.

7. Reproductive Tract Infections (RTIs)

- Affects both male and female reproductive systems.
- Female: Upper (fallopian tubes, ovary, uterus) and lower (vagina, cervix, vulva).
- Male: Penis, testicles, urethra, vas deferens.
- Types: Sexually transmitted infections (e.g., AIDS, herpes).
- Causes: Bacteria, viruses, fungi, and other organism