

## ACTIVITY

Name :

Class :

# Reproductive System



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# Reproductive System



**Subject: Science**

**Class/Semester : IX/1**

**Time allocation: 2 JP (2x40 minutes)**

**Material: Human Reproductive System**

### **Learning outcomes:**

Students are able to carry out analyzes to find the relationship between organ systems and their functions as well as abnormalities and disorders that arise in the reproductive system.

### **Learning objectives:**

After following this lesson, it is hoped that students will be able to identify the human reproductive organ system, identify the function of the reproductive organ system, and analyze diseases/disorders and how to prevent diseases in the reproductive system.

### **Pancasila student profile:**

1. Independent
2. Critical Reasoning

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### Instruction :

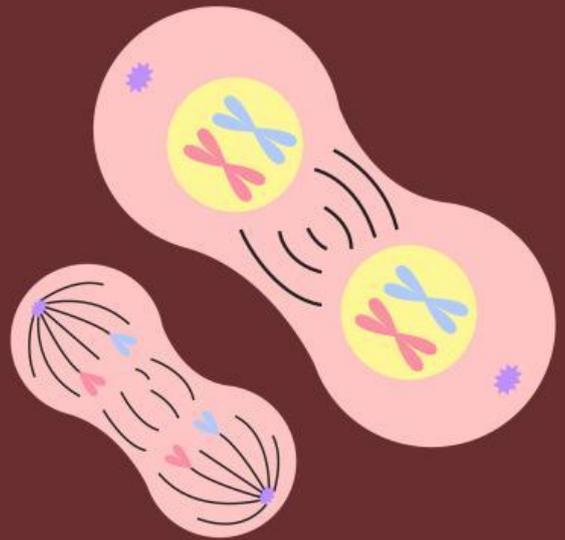
1. Fill in the identity on the front cover of the LKPD!
2. Read the material carefully!
3. Do the questions individually!
4. If there is something they do not understand, students can ask the teacher.

### Introduction

How did you come to be in this world? How long were you in your mother's womb? Where do you get food from while in the womb? Are you interested in knowing the answer to the question above? Therefore, come on, let's study this chapter together with enthusiasm! Have you ever thought about how mothers can get pregnant? Can mothers conceive without the presence of our father? Of course the answer is no, right? From the marriage of father and mother, offspring are produced, namely the birth of you. Father and mother can have offspring because they have a reproductive system. Without this reproductive system, we would not be able to be born into the world and humanity would become extinct. What are the tools or organs that make up the reproductive system? Are our father's (male) reproductive system and our mother's (female) reproductive system the same? Come on, let's study this material carefully!

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## Learning Material

### Cell Division

The formation of new or daughter cells from pre-existing cells can occur through the process of cell division. Cell division is divided into mitosis and meiosis. Mitosis is a type of cell division that produces two daughter cells that have genetically identical characteristics to the parent cell. Mitosis consists of four division phases, namely prophase, metaphase, anaphase and telophase. Each phase of division has different characteristics. Meiosis is cell division that produces four daughter cells, each daughter cell having only half the number of chromosomes of the parent cell. It can be said that the number of chromosomes possessed by daughter cells is  $n$  or is called haploid. Therefore, meiosis is called reduction division.

### Structure and Function of the Reproductive System in Humans

#### 1. Reproductive Organs in Men

- External Reproductive Organs penis, scrotum
- Reproductive Organs In the testes, sperm ducts (epididymis, vas deferens, urethra), reproductive glands (seminal vesicles, prostate gland, Cowper's glands/Bulbourethra)

#### 2. Spermatogenesis

The process of sperm formation is called spermatogenesis. The formation of sperm cells occurs in the seminiferous tubules. The process of sperm formation in the seminiferous tubules occurs in stages.

#### 3. Reproductive Organs in Women

- External Reproductive Organs: vulva, labium
- Reproductive Organs In the ovaries, reproductive tract (egg tubes/Fallopian tubes, uterus/uterus, vagina).

#### 4. Oogenesis

Oogenesis is the process of formation of female sex cells, namely egg cells or ovum and occurs in an organ called the ovary. In contrast to spermatogenesis which begins when boys begin puberty, oogenesis begins before girls are born.

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## Learning Material

### Menstrual Cycle, Fertilization, and Pregnancy

#### Menstrual Cycle

Menstruation is a discharge of blood, mucus and epithelial cells that make up the uterine wall. In general, one menstrual cycle lasts 28 days. The menstrual cycle can be divided into several phases, namely the menstrual phase, proliferative phase, and secretory phase.

#### Fertilization and Pregnancy

Fertilization is the process of fusion of the sperm cell nucleus with the egg cell nucleus to form a zygote. This fertilization process occurs in the fallopian tubes. The zygote that is formed after fertilization will divide, then develop into an embryo which will go to the uterus, then implant (implantation) into the endometrium. In this condition, a woman experiences pregnancy.

### Diseases of the Human Reproductive System and Efforts to Prevent Them

#### 1. Diseases of the Human Reproductive System

For example: HIV/AIDS, Gonorrhoea (GO), Syphilis (Lion King), Genital Herpes Simplex, Vaginal Discharge, Epididymitis.

#### 2. Efforts to Prevent Diseases in the Human Reproductive System

- Use underwear that is made from cotton and has a soft texture.
- Get into the habit of rinsing your reproductive organs thoroughly after every urination or defecation, then dry them.
- Change underwear 2-3 times a day.
- If you are menstruating, change sanitary napkins as often as possible.
- Avoid using soap to clean feminine areas and pantyliners continuously.
- Exercise regularly and eat lots of fruit and vegetables.

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## Activity 1

After reading the material, answer the questions below correctly!

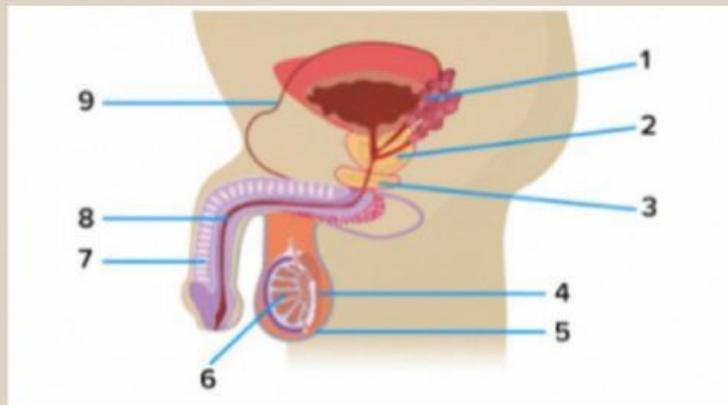
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## Activity 2

Complete the names of the male reproductive organs below and explain each function!



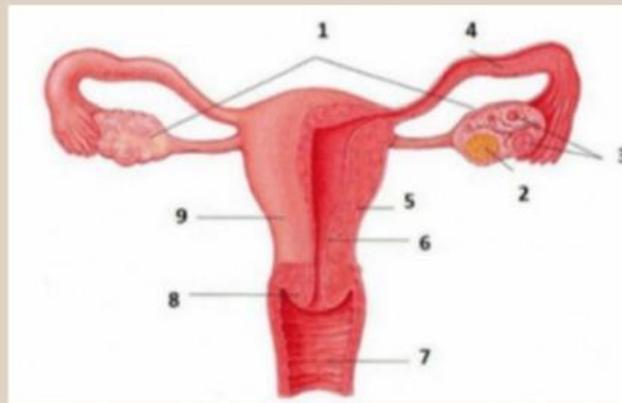
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### Activity 3

Complete the names of the female reproductive organs below and explain each function!



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## Activity 4

Answer the following questions correctly!

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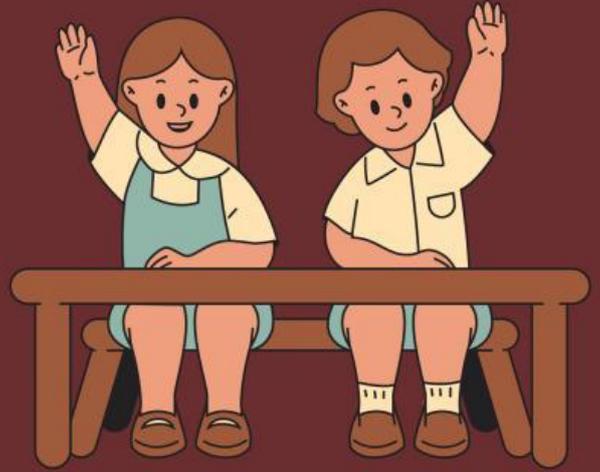


## Activity 5

Match the keywords below with appropriate statements by drawing lines!

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# “LEARNING REFLECTION”

Today I feel...

My favorite activity  
from today's lesson  
was...

The new thing I learned today is...