



GRADE V

**PROCESS OF FERTILIZATION**

*At the end of the module, you should be able to:*

- *Explain the process of fertilization*



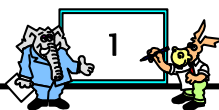
**Try to Recall**

What are the male reproductive systems?

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_

What are the female reproductive systems?

6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_





## Explore

The birth of the new individual will not be possible if fertilization does not happen. But what is fertilization?

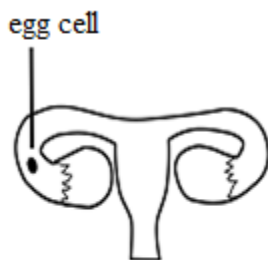
### FERTILIZATION

The first step in reproduction is called **Fertilization**. A human develops from an egg that has been fertilized by a sperm. The union of a sperm and an egg is known as Fertilization. Fertilization as shown below, usually takes place in the oviduct. The fertilized egg is called zygote. After the zygote has attached itself to the wall of the uterus, it is known as an embryo. After two months, the developing embryo is called fetus.

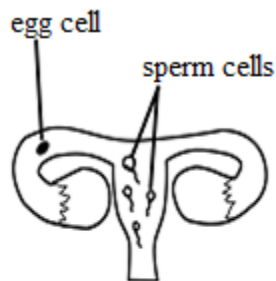
Activity:

How an egg cell is fertilized.

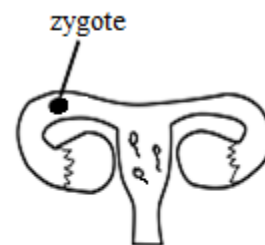
1. Study the frames below. This frame shows the movement of the sperm cells and the egg cell in the female reproductive system.



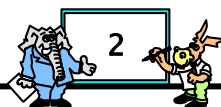
egg cell released by ovary and received by the fallopian tube



sperm cell moving up to the fallopian tube



egg cell meets the sperm cell and become fertilized





2. Answer the following question:

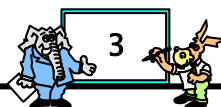
- What release the egg cell? What receives it?
- What is the direction of the movement of the egg cell? The sperm cell?
- Where do the egg cell and the sperm cell commonly meet?
- What do you think is the process when the sperm cell and the egg cell meet?
- How many sperm cell can fertilize an egg cell?
- How is a fertilized egg cell called?

Read and Learn more

After being discharged from the ovary, the egg cell or the ova begins to travel through the fallopian tube to the uterus. If a sperm cell is present in the fallopian tube, it will try to penetrate the egg cell. If the sperm succeeds, it shed its tail. Fertilization has taken place. The egg cell can no longer be penetrated by any other sperm cell. The fertilized egg called zygote continues to move towards the uterus. It is here where the zygote implants itself and continues its development into a full term fetus.

### **I LEARNED THAT:**

- Fertilization is the union of the sperm cell and the egg cell.
- Fertilization commonly happens in the fallopian tube.
- Only one sperm cell can fertilizes an egg cell.
- A fertilized egg is known as zygote
- The zygote continues development happens in the uterus.





### Apply It

Answer the following question in your notebook.

If a zygote stop moving and does not have a chance to reach the uterus, where do you think will it develop?



### Test Yourself

Complete the concept map about fertilization.

