

# Questions about Gametes



# What two cells make a baby? (pick two)

Egg

Cheek

Sperm

Muscle



# What two cells make a baby? (pick two)

**Egg**

**Cheek**

**Sperm**

**Muscle**



# Where are sperm cells made?

Ovaries

Uterus

Brain

Testes



# Where are sperm cells made?

Ovaries

Uterus

Brain

Testes



**What do we call egg cells and sperm cells collectively? (pick two)**

**Testes**

**Gamets**

**Chromosomes**

**Sex cells**



**What do we call egg cells and sperm cells collectively? (pick two)**

**Testes**

**Gamets**

**Chromosomes**

**Sex cells**



# Which option is correct?

Egg and sperm contain 23 chromosomes each

Egg and sperm have 23 chromosomes in total

A baby has 23 chromosomes only

Eggs, sperms and babies all have 23 chromosomes





# Which option is correct?

Egg and sperm contain 23 chromosomes each

Egg and sperm have 23 chromosomes in total

A baby has 23 chromosomes only

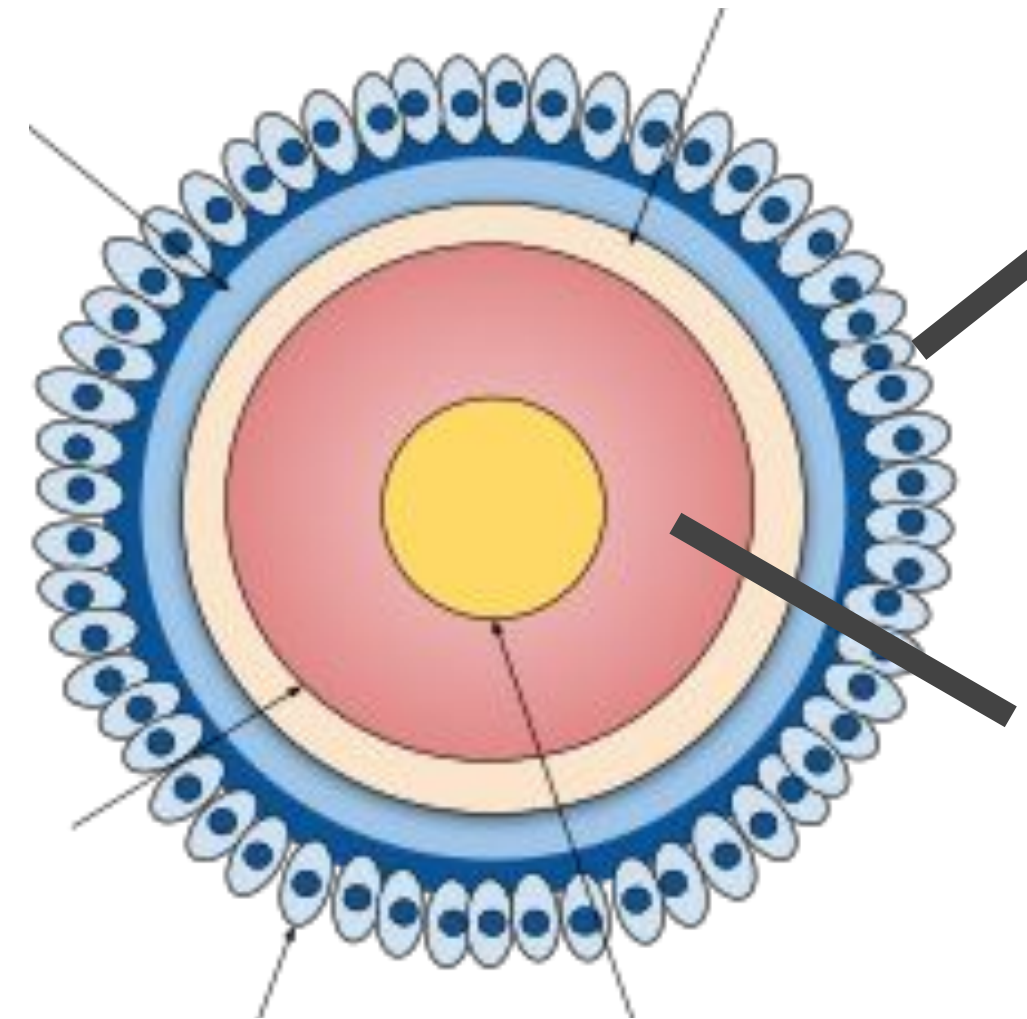
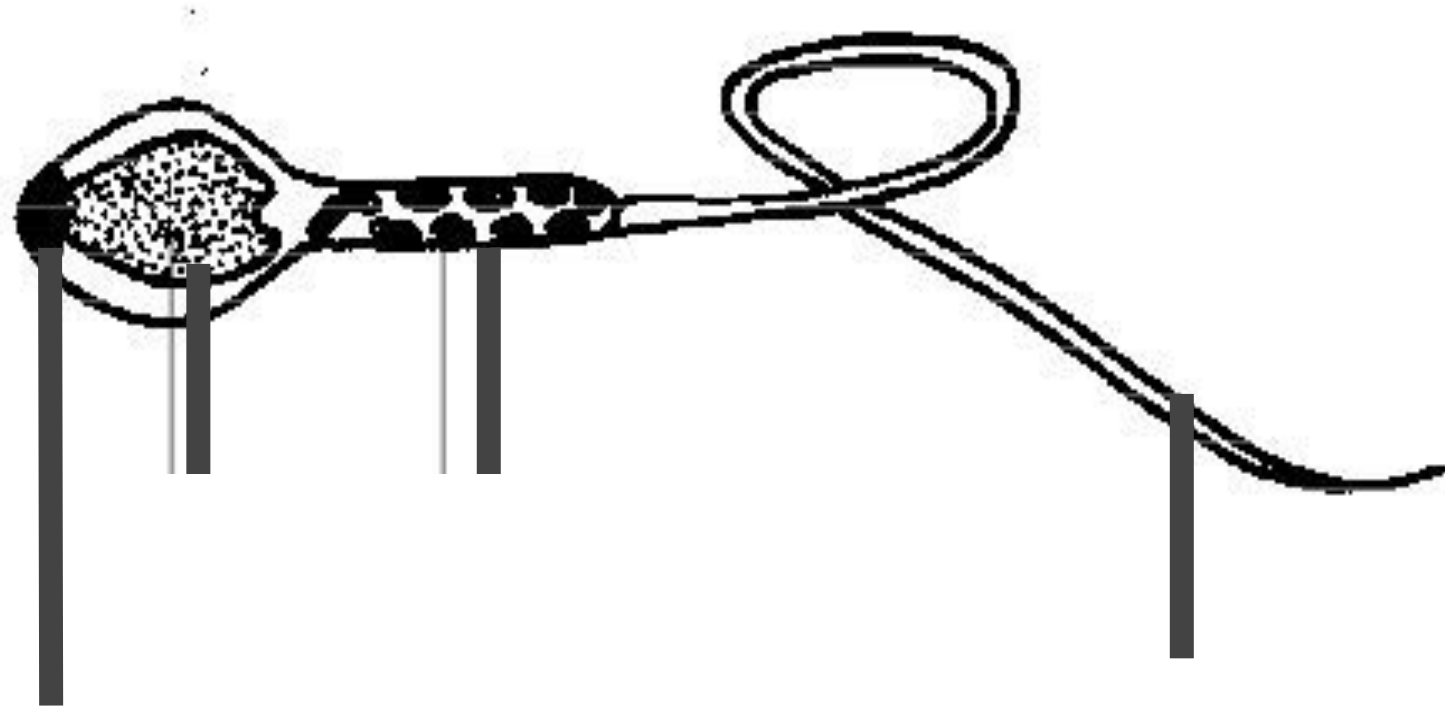
Eggs, sperms and babies all have 23 chromosomes



# Questions about Gamete Adaptations



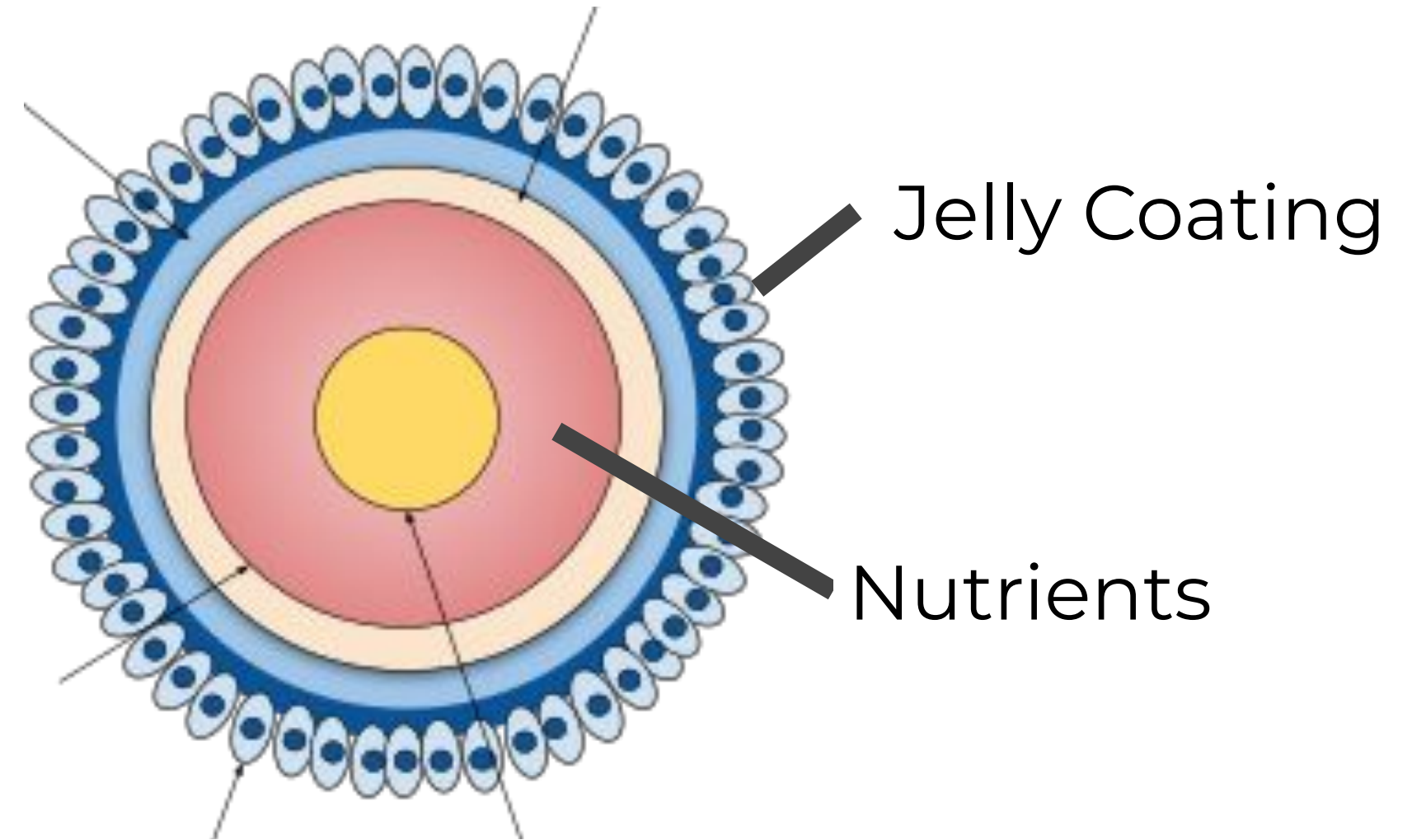
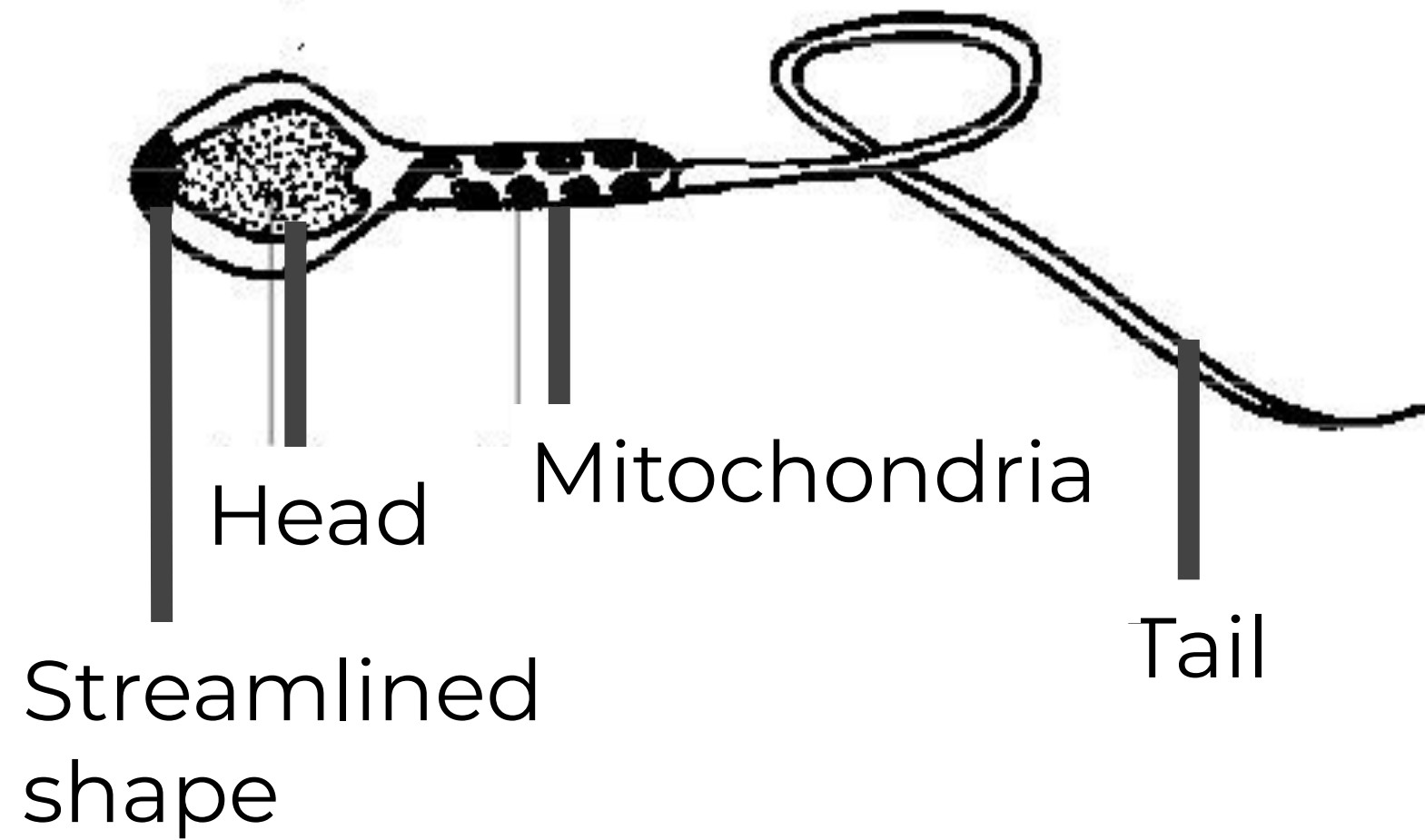
# Label the two diagrams



Labels: nutrients, tail, mitochondria, jelly coating, head, streamlined shape



# Label the two diagrams



# Sperm or egg adaptation?

Sperm

Tail

Nutrients

Mitochondria

Streamlined Shape

Jelly Coating

Digestive enzymes

Egg



# Sperm or egg adaptation?

## Sperm

Tail

Mitochondria

Streamlined shape

Digestive enzymes

## Egg

Nutrients

Jelly Coating



# Which adaptation helps sperm penetrate the egg membrane?

23 Chromosomes

Tail

Digestive Enzymes

Mitochondria



# Which adaptation helps sperm penetrate the egg membrane?

23 Chromosomes

Tail

Digestive Enzymes

Mitochondria





**Which two adaptations helps sperm swim to the egg? (pick two)**

23 Chromosomes

Tail

Digestive Enzymes

Mitochondria



**Which two adaptations helps sperm swim to the egg? (pick two)**

23 Chromosomes

Digestive Enzymes

Tail

Mitochondria



# Which adaptation stops more than one sperm entering the egg?

23 Chromosomes

Tail

Jelly coat

Nutrients



**Which adaptation stops more than one sperm entering the egg?**

23 Chromosomes

Tail

Jelly coat

Nutrients



# Describe and explain how sperm and egg cells are adapted for their roles

One adaptation sperm have is \_\_\_\_\_ which helps \_\_\_\_.  
(there are 4 of these)

One adaptation egg cells have is \_\_\_\_\_ which helps \_\_\_\_.  
(there are 2 of these)



# Describe and explain how sperm and egg cells are adapted for their roles

One adaptation sperm have is a tail which helps them swim to the egg. Another adaptation is the mitochondria which helps give the sperm energy. Another adaptation is the digestive enzymes which help the sperm penetrate the egg cell membrane. Another adaptation is the streamlined shape which help the sperm break down the egg's outer layer.

One adaptation egg cells have is a jelly coating which helps by only letting in one sperm. Another adaptation egg cells have is nutrients which act as a food source for the developing baby.



# Questions about the Male and Female Reproductive Systems



# Male or female reproductive system?

**Male**

Testes  
Ovaries  
Vagina  
Penis  
Cervix  
Sperm duct  
Scrotum  
Oviduct  
Uterus  
Glands

**Female**





# Male or female reproductive system?

**Male**

**Testes**

**Penis**

**Sperm Duct**

**Scrotum**

**Glands**

**Female**

**Ovaries**

**Vagina**

**Cervix**

**Oviduct**

**Uterus**



# Which is the correct path for sperm through the male reproductive system?

Testes -> Penis -> Ovary

Testes -> Oviduct ->  
Urethra -> Penis

Testes -> Sperm Duct ->  
Urethra -> Penis

Ovary -> Oviduct ->  
Uterus



# Which is the correct path for sperm through the male reproductive system?

Testes -> Penis -> Ovary

Testes -> Oviduct ->  
Urethra -> Penis

Testes -> Sperm Duct ->  
Urethra -> Penis

Ovary -> Oviduct ->  
Uterus



# Which is the correct path for sperm when it enters the female reproductive system?

Vagina -> Cervix ->  
Uterus -> Oviduct

Vagina -> Uterus -> Ovary

Vagina -> Cervix ->  
Uterus -> Sperm Duct

Testes -> Ovary -> Vagina



# Which is the correct path for sperm when it enters the female reproductive system?

Vagina -> Cervix ->  
Uterus -> Oviduct

Vagina -> Uterus -> Ovary

Vagina -> Cervix ->  
Uterus -> Sperm Duct

Testes -> Ovary -> Vagina



**Which part of the male reproductive system adds fluid to the sperm?**

Testes

Penis

Sperm Duct

Glands



**Which part of the male reproductive system adds fluid to the sperm?**

Testes

Penis

Sperm Duct

Glands



**Which part of the female reproductive system releases the egg?**

Oviduct

Ovary

Uterus

Vagina





**Which part of the female reproductive system releases the egg?**

Oviduct

Ovary

Uterus

Vagina



**Describe the journey of a sperm cell through the male reproductive system. Then do the same for an egg cell through the female reproductive system.**

**The sperm cell starts in \_\_\_\_\_. It moves through the \_\_\_\_\_ and then the \_\_\_\_\_ before exiting the body at the \_\_\_\_\_.  
The egg cell starts in the \_\_\_\_\_. It moves into the \_\_\_\_\_ where it waits for a \_\_\_\_\_.**



**Describe the journey of a sperm cell through the male reproductive system. Then do the same for an egg cell through the female reproductive system.**

The sperm cell starts in the testes. It moves through the sperm duct and then the urethra before exiting the body at the penis.

The egg cell starts in the ovary. It moves into the oviduct where it waits for a sperm cell.



# References

- Slides 11, 12 - Anatomy and physiology of animals A sperm, by Sunshineconnelly, sourced from Wikipedia Commons
- Slides 11, 12 - The sperm and ovum during fertilization by Atdoan0, by sourced from Wikimedia Commons

