

Year 7 and year 8:

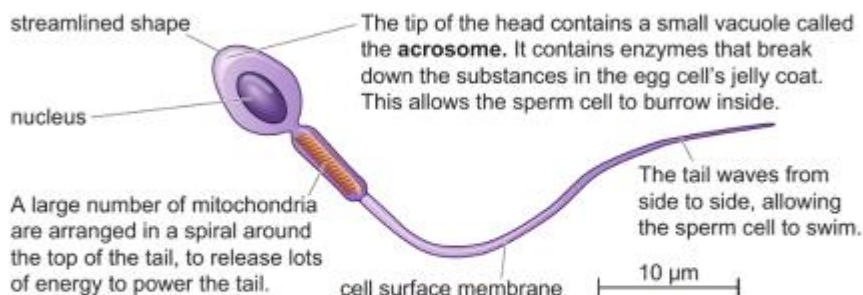
Science Work for week 4 – w/b 22nd June

- Log onto Kerboodle and find the digital book, page 14 and 15.
- Draw an annotated diagram of a sperm and egg cell and explain the annotations. E.g. Why do sperm have mitochondria? What happens in mitochondria?
- Complete the extended writing task.
- You should have all the information from the previous 3 weeks of lessons but if not use your Kerboodle resources.

Mrs Russell and Mrs Bracey

Reproduction

Sperm cells are the male sex cell (**gamete**).



They have a **streamlined** shape and **tail** to easily **swim** towards the egg.

They have lots of **mitochondria** to power this tail.

They have **enzymes** in the **acrosome** to break through the **egg cell's jelly coat**.

Reproduction

Egg cells are the female sex cell (**gamete**).

They carry half the **genetic information** of a cell.

They have a **jelly coat** to protect the cell and ensure only one **sperm** gets in.

They have lots of **nutrients** in the **cytoplasm** for the **fertilised egg**.

The cell membrane fuses with the sperm cell membrane. After fertilisation, the cell membrane becomes hard to stop other sperm cells entering.

The cytoplasm is packed with nutrients, to supply the fertilised egg cell with energy and raw materials for the growth and development of the embryo.



The jelly coat protects the egg cell. It also hardens after fertilisation, to ensure that only one sperm cell enters the egg cell.

haploid nucleus

7B Reproduction

The race to make a baby

Task: Write a short story to describe and explain what happens when a sperm and egg meet to make a baby.

These are the five headings you must include:

1. The sperm race begins.
2. Meeting the egg.
3. The journey to the womb.
4. Growing in the womb.
5. Time to be born.



For each heading, make sure you clearly show where it takes place and you describe the main events that happen, using as many scientific words as you can.

Key words:

birth, egg, ejaculation, embryo, fallopian tube, fertilisation, foetus, implantation, ovary, penis, placenta, semen, sperm, umbilical cord, uterus, vagina, womb, zygote