

Key Stage 3 Precise Learning Points



Unit Number	B3
Unit Title	Respiration, Reproduction & Inheritance
Chapter	Reproduction in Animals

Key Scientific Points

1. Sperm and Eggs are the gametes produced in the reproductive system
2. Identify the name and role of parts of the male reproductive system – penis (guides sperm towards cervix), urethra (carry sperm out of the male body), prostate gland (adds fluid to help sperm survive), sperm duct (guide sperm from testis to penis), testis (the site of sperm production), scrotum
3. Identify the name and role of parts of female reproductive system – vagina (a muscular tube into which penis is inserted), cervix (a ring of muscle separating vagina and uterus), uterus (uterus is a muscular sack where the baby will develop), fallopian tube (fallopian tube guides the egg from the ovaries to the uterus), ovaries (hold the eggs)
4. Journey of sperm to the egg – after ovulation the egg will begin movement down the fallopian tube. After ejaculation sperm will begin to swim through the uterus towards the egg. Fertilisation occurs in the fallopian tube when the sperm meet the egg.
5. Fertilisation is the fusion of two nuclei
6. The fertilised egg will continue on its journey towards the uterus
7. After fertilisation the egg begins to divide rapidly, this should be linked to mitosis and it should be stressed that the copies are identical. It is called a zygote at this stage.
8. By as early as day 21 the heart can start beating and cells start to differentiate to form specific structures.
9. Between week 8 and 12 the embryo is recognisable as a baby and is able to move and react in the amniotic sac that is protecting it.
10. Between week 32 there is a 95% chance of survival if born
11. Normal gestation is 40 weeks.
12. Male changes to the body – lower voice, pubic hair, muscular development, penis enlargement
13. Female changes – period starts, hips widen, pubic hair, breast grow.
14. Changes in puberty are due to hormone levels in the body and this is also what may cause the moodiness characteristic of young people! (also spots and greasy hair etc.)
15. The menstrual cycle – days 1-5 shed lining of uterus, 6-14 rebuild uterus lining and maturing of egg, day 14 ovulation, days 14-28 maintenance of uterus lining in case of pregnancy.