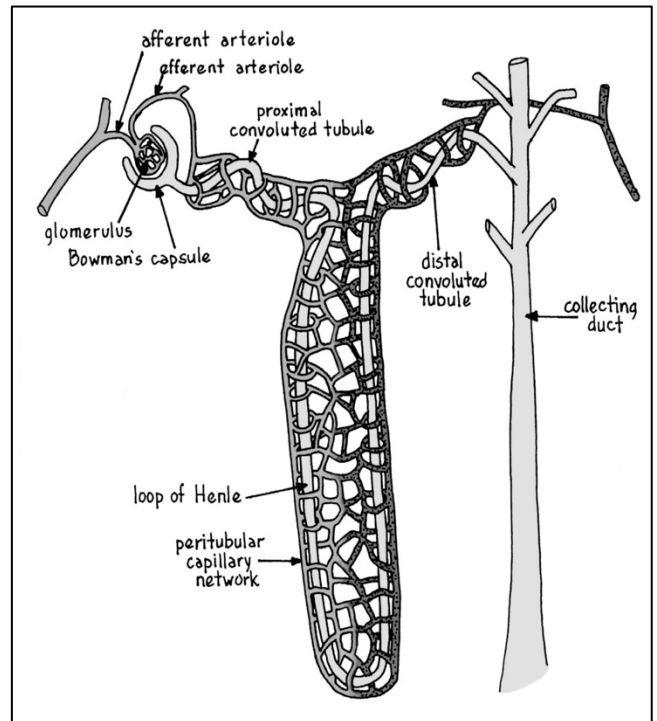
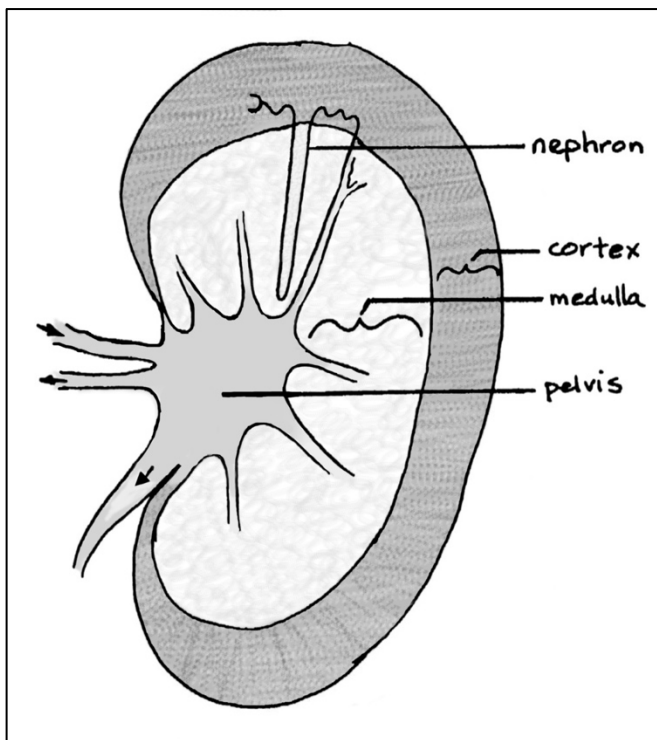
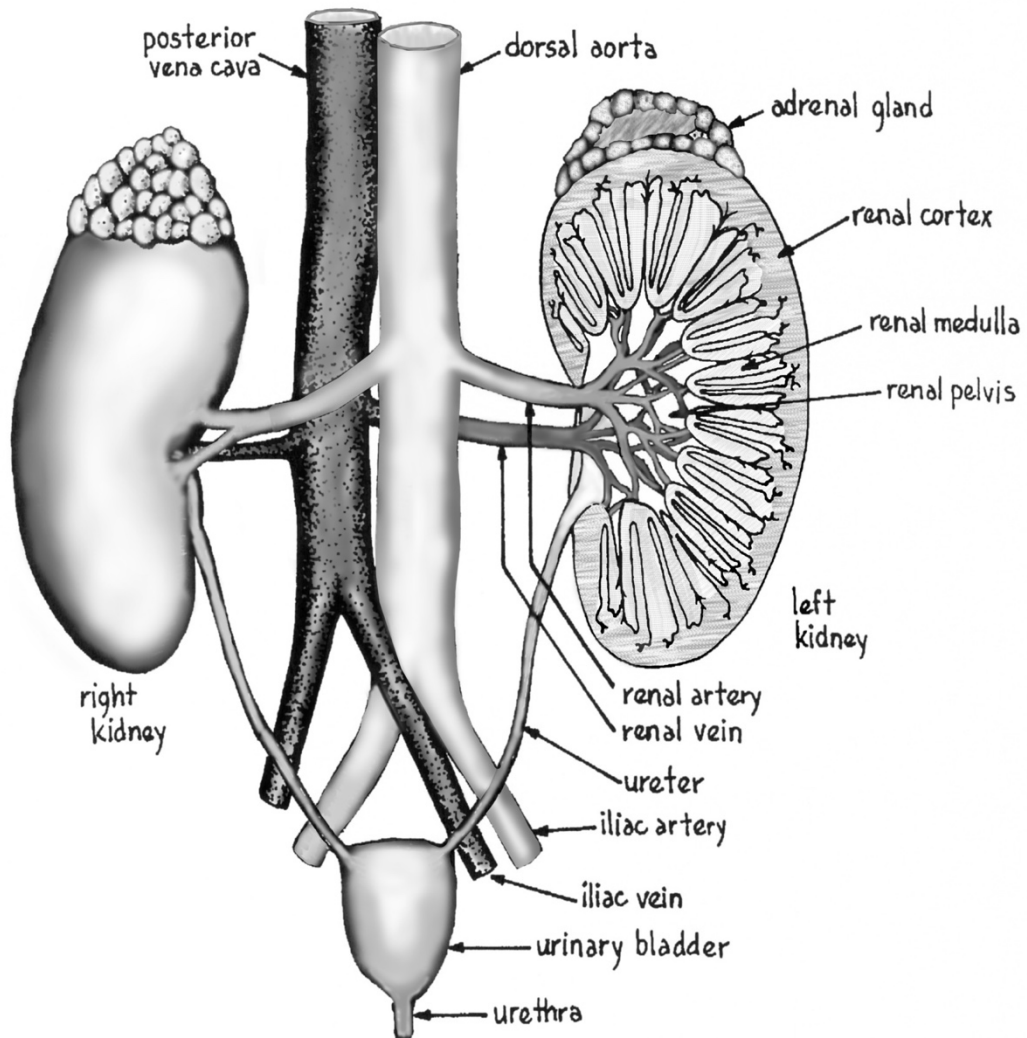
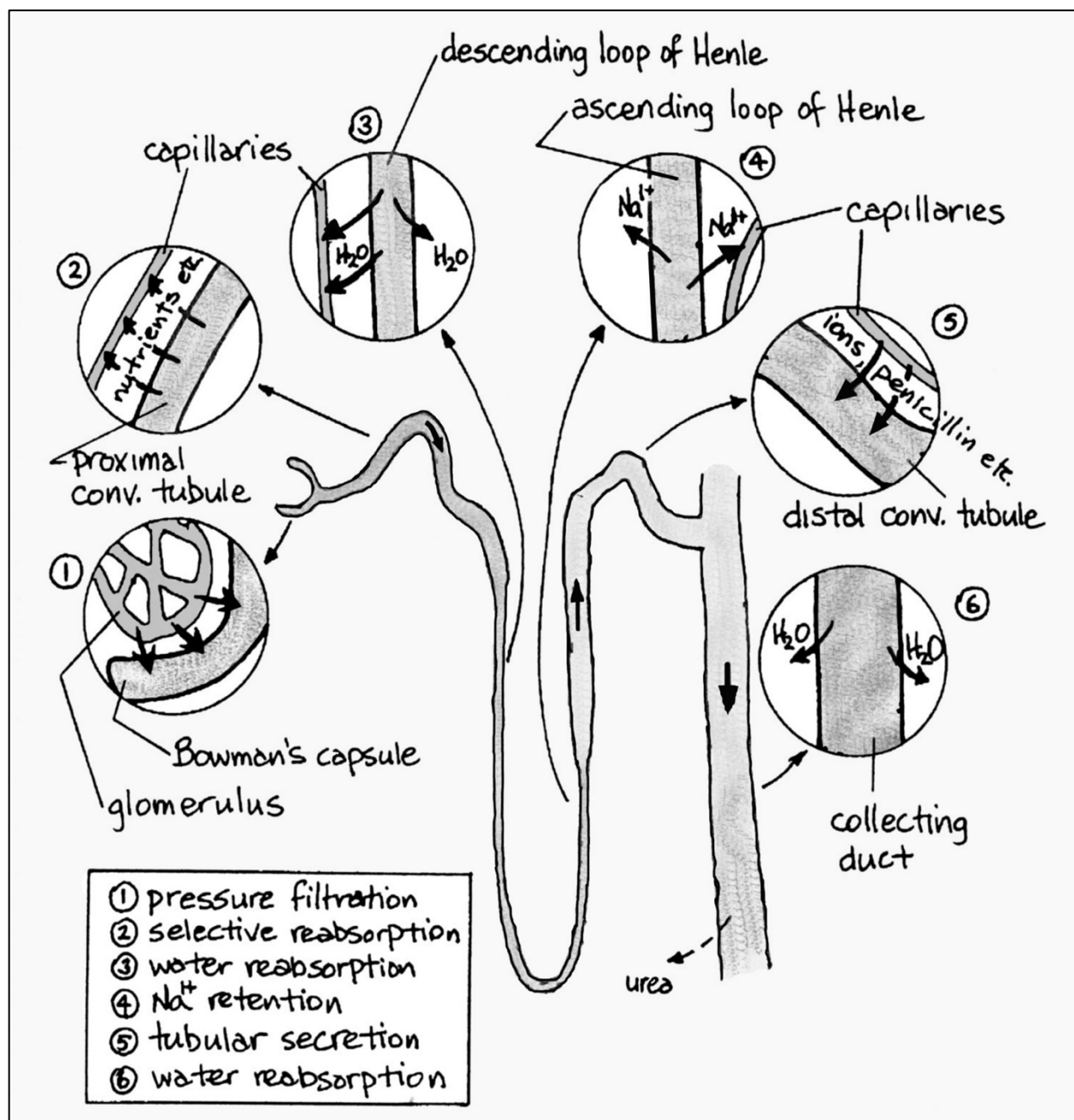
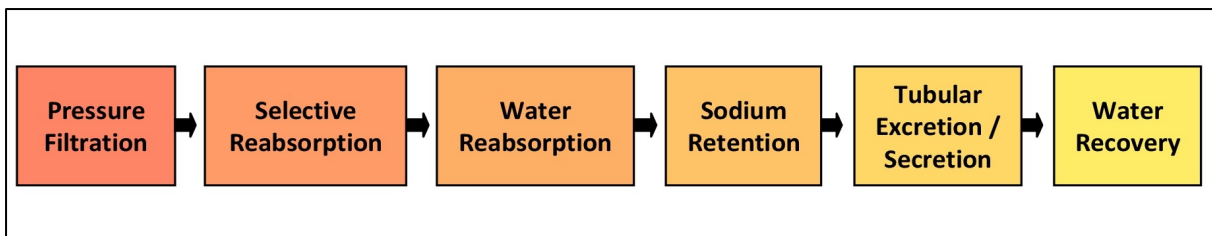


BIO12 Urinary System and Reproductive System

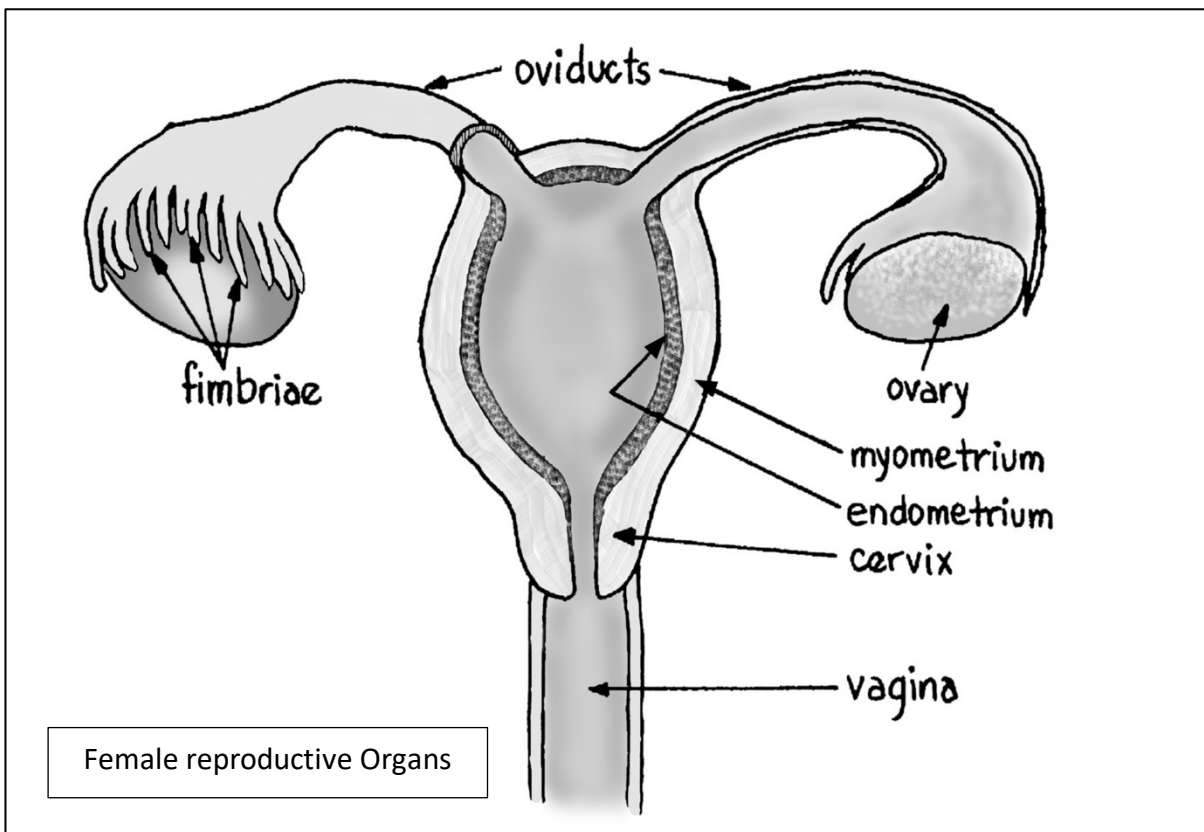
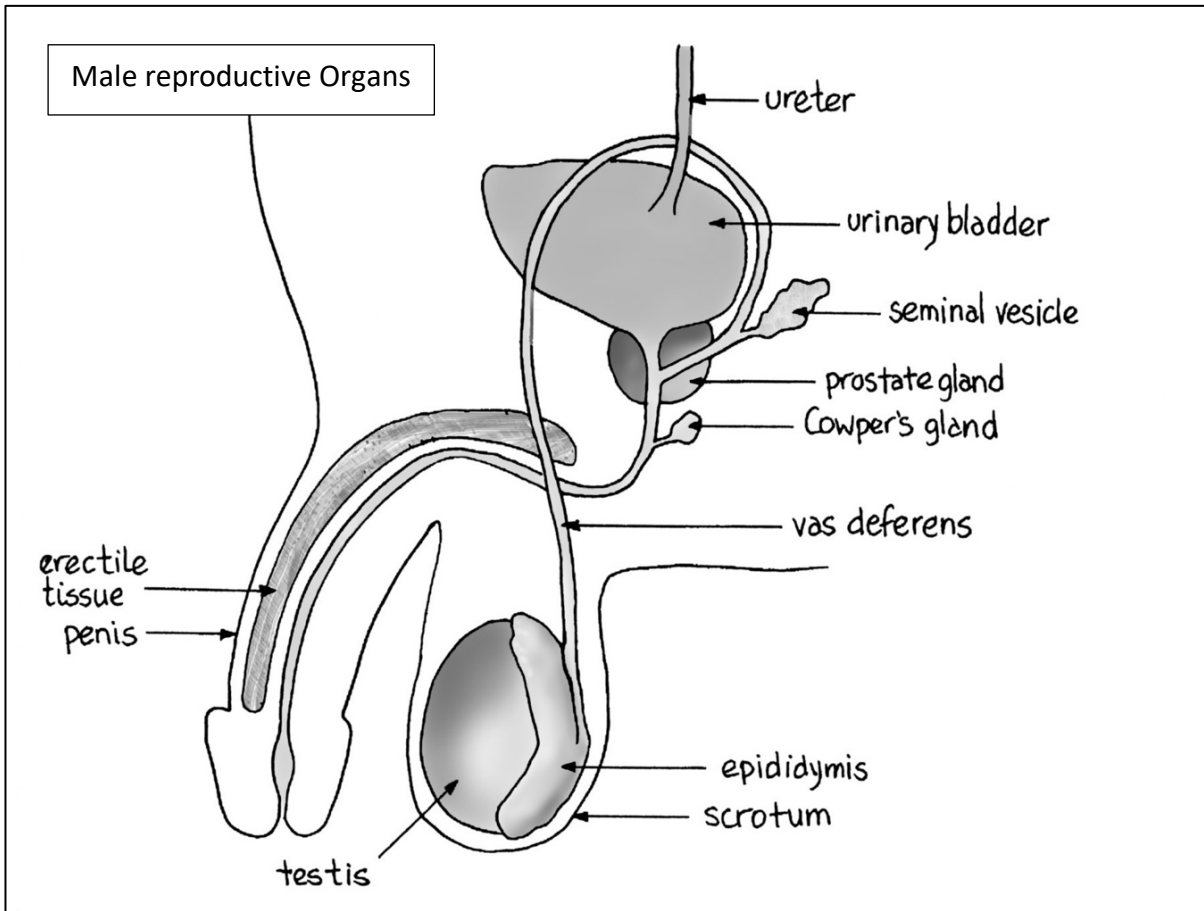
Urinary System Structures. Write all the functions associated with Each Structure.



Urine production Steps. Understand and explain each step of urine production in the kidneys.

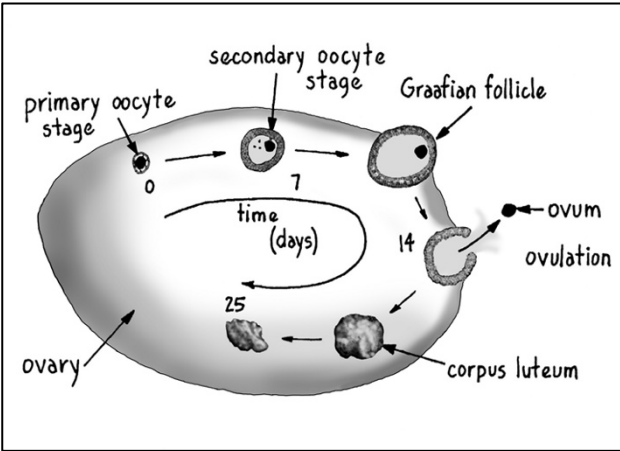


Reproductive System Structures: Write all the functions associated with Each Structure.



Understand and explain each step of the ovarian cycle and the hormones involved.

Female Reproductive Hormone Cycle-
Feedback Loop and Ovarian cycle



FUN FACT: a human female is BORN with 1-2 million ova in her ovaries BUT by the time puberty hits, only 300 00+/- are left!

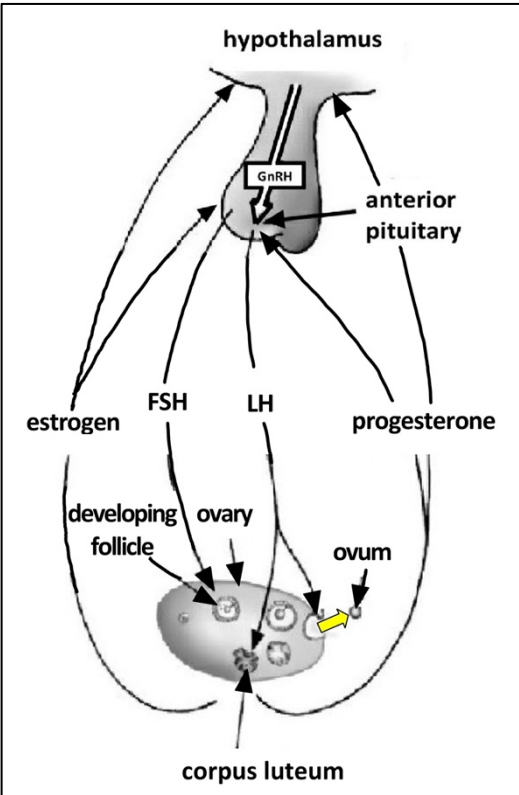


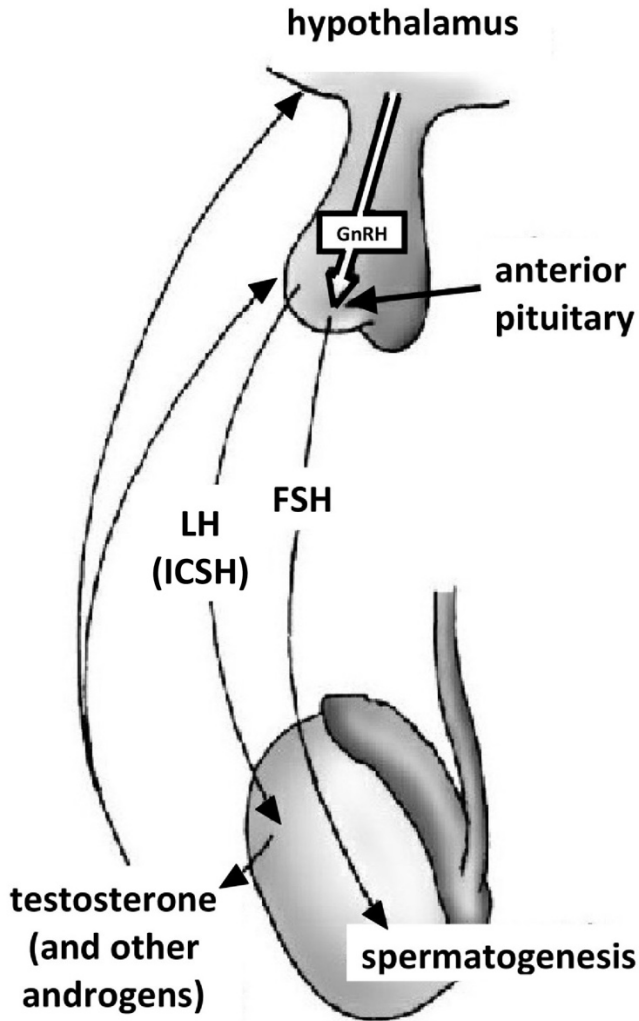
Table K.1 Phases of the Uterine Cycle

PHASE	DURATION (approximate)	DESCRIPTION
Menstrual Phase	Days 1 to 5	the endometrium lining breaks down and is discharged
Proliferative Phase	Days 6 to 14	the endometrium lining is rebuilt and begins to thicken
Secretory Phase	Days 15 to 28	the endometrium lining continues to thicken and its secretory glands mature

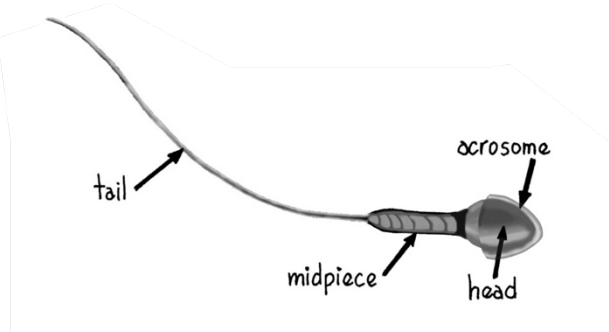
Table K.2 Phases of the Ovarian Cycle

PHASE	DURATION (approximate)	DESCRIPTION
Follicular Phase	Days 1 to 13	the anterior pituitary secretes LH and FSH, which promote the maturation of a follicle in the ovary. As the follicle matures it secretes estrogen (which negatively affects LH and FSH secretion) and progesterone (to build the endometrium)
Ovulation	Day 14	the ovary releases an ovum (due to a spike in the LH level) and the corpus luteum begins to form
Luteal Phase	Days 15 to 28	after a lag period, estrogen is secreted by the corpus luteum causing the endometrium to continue to thicken and mature. Progesterone release continues making the endometrium secretory

Understand and explain each step spermatogenesis and the hormones involved.



Male Reproductive Hormone Cycle-Feedback Loop and Spermatogenesis



FUN FACT: During spermatogenesis, testicles produce 1,500 sperm/sec and several million/day and up to 8 billion/cycle. Ejaculation contains nearly 100 million sperm. Only one will fertilize the female ova.

