

Name \_\_\_\_\_

## The Wonderful World of Reproductive Hormones

### Open-Ended Response Answer Key

1. Reproductive hormones differ between males and females in terms of the specific hormones produced and their roles in sexual development and reproduction. For example, males produce testosterone, which is responsible for the development of male reproductive organs and secondary sexual characteristics, while females produce estrogen and progesterone, which regulate the menstrual cycle and support pregnancy.
2. Estrogen and progesterone play key roles in the female reproductive system. Estrogen is responsible for the development of female reproductive organs and secondary sexual characteristics, while progesterone helps regulate the menstrual cycle and supports pregnancy by maintaining the uterine lining.
3. Ovulation is the process in which a mature egg is released from the ovary into the fallopian tube, where it can be fertilized by sperm. Ovulation is significant in reproduction because it allows for the possibility of fertilization and pregnancy.
4. It's important for both males and females to have balanced reproductive hormones to ensure proper sexual development, fertility, and reproductive health. Imbalances in reproductive hormones can lead to infertility, menstrual irregularities, and other reproductive health issues. Additionally, balanced hormones also influence mood, libido, and overall well-being.

