

**Lesson Outline****LESSON 3*****Reproduction and Development*****A. Reproduction and Hormones**

1. Some organs of the endocrine system ensure that humans can \_\_\_\_\_.
  - a. \_\_\_\_\_ is the process by which new organisms are produced.
  - b. Human reproductive cells, or \_\_\_\_\_, are necessary for reproduction.
  - c. Male gametes are called \_\_\_\_\_.
  - d. Female gametes are called \_\_\_\_\_.
  - e. \_\_\_\_\_ is the process during which a sperm and an egg join together.
  - f. The cell that forms from fertilization is called a(n) \_\_\_\_\_.
2. The male reproductive system produces \_\_\_\_\_ and delivers it to the \_\_\_\_\_.
  - a. Sperm are produced in the \_\_\_\_\_.
  - b. Testes also produce the hormone \_\_\_\_\_, which helps sperm develop.
  - c. After sperm have developed, they travel to the \_\_\_\_\_, which delivers the sperm to the female reproductive system in a fluid called \_\_\_\_\_.
3. The female reproductive system contains two \_\_\_\_\_ in which eggs grow and mature.
  - a. Ovaries produce the hormones \_\_\_\_\_ and \_\_\_\_\_, which help eggs mature.
  - b. Mature eggs leave the ovaries and enter the \_\_\_\_\_ tubes, where they might join with any sperm present.
  - c. A zygote moves from the fallopian tube and attaches itself to the wall of the \_\_\_\_\_.
  - d. If an egg is not \_\_\_\_\_, it travels through the fallopian tube and uterus and breaks down.

## Lesson Outline continued

4. The endocrine system controls egg maturation and release and the thickening of the lining of the uterus in a process called the \_\_\_\_\_.

  - a. The \_\_\_\_\_ takes place about every 28 days.
  - b. During the first part of the cycle, eggs grow and mature and the thickened lining of the \_\_\_\_\_ leaves the body.
  - c. Next, mature eggs leave the \_\_\_\_\_, and the lining of the \_\_\_\_\_ thickens.
  - d. In the third part of the cycle, the thickened lining and \_\_\_\_\_ eggs break down.

### B. Human Development

1. A zygote develops into a(n) \_\_\_\_\_, which attaches to the uterus and continues to grow.
  - a. An embryo develops into a(n) \_\_\_\_\_, which is the last stage before birth.
  - b. For a human, it takes approximately \_\_\_\_\_ weeks from fertilization to birth—a development time called \_\_\_\_\_.
  - c. During birth, the endocrine system releases hormones that help the \_\_\_\_\_ push the fetus through the \_\_\_\_\_ and out of the body.
2. The first stage after birth is \_\_\_\_\_, the first 2 years of life.
  - a. The stage of development from 2 years through 12 years is called \_\_\_\_\_.
  - b. The stage after childhood is called \_\_\_\_\_, during which skeletal and muscular systems, lungs, kidneys, and the reproductive system continue to grow.
  - c. The time during which the reproductive system matures is called \_\_\_\_\_.
  - d. After adolescence, humans enter \_\_\_\_\_.
  - e. In later adulthood, hair turns gray, wrinkles form in the skin, and bones become weaker in the process called \_\_\_\_\_.
  - f. Aging is a slow process that can last for \_\_\_\_\_.