Notes 2.1 continued….

Learning Target: **Sexual reproduction leads to diversity!**

**Sexual reproduction leads to diversity because the DNA in the offspring is different from the DNA in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

Two different cellular processes are involved in sexual reproduction. The first is **meiosis**, a special form of cell division that produces sperm cells in a male and egg cells in a female. Each sperm or egg cell contains only one copy of DNA.

The second process in sexual reproduction is **fertilization.** Fertilization occurs when the sperm cell from the male parent combines with the egg cell from the female parent. A fertilized egg is a single cell with DNA from both parents. Once the egg is fertilized, it divides. One cell becomes two; two cells become four, and so on. As the cells divide, they start to specialize, and different tissues and organs form.

What is….

**Asexual Reproduction** (give organism example)

**Sexual Reproduction** (give organism example)

**External Fertilization** (give organism example)

**Internal Fertilization** (give organism example)

**Hermaphrodite**