

## CONCEPT: MATERNAL EFFECT GENES

- **Maternal effect** occurs when the offspring's phenotype is determined by its \_\_\_\_\_ genotype.
  - Can occur when the mother's egg contains "leftover" mRNA or proteins that influence the offspring's phenotype.
  - The shell *coiling* of the snail *Linnaea* is an example of maternal effect.
    - DD and Dd genotypes form right-handed coiled shells.
    - dd genotypes form left-handed coiled shells.
    - A dd offspring will form a right-handed coiled shell if the mother is DD or Dd.

## **EXAMPLE:**

