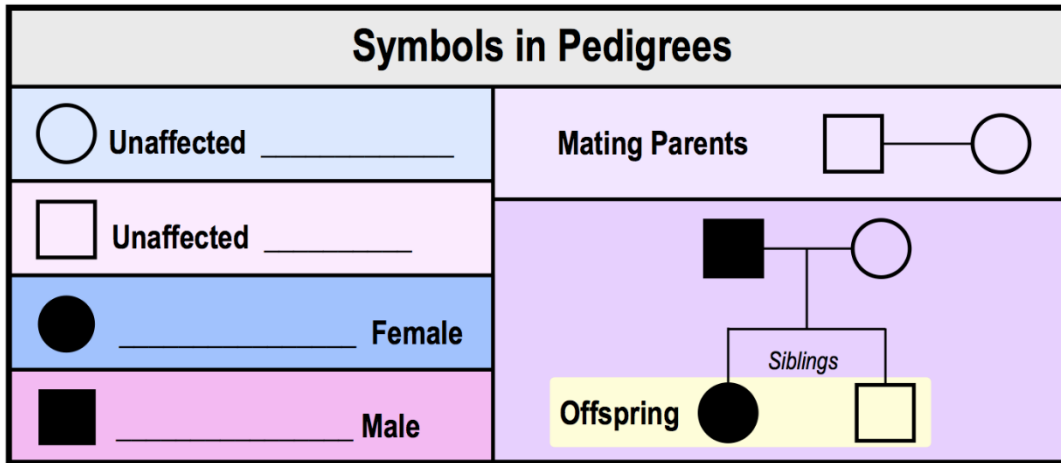## CONCEPT: PEDIGREES

●**Pedigree**: a chart or "family tree" depicting family _____ & *tracking a phenotype* over many generations.

□ Circles (◯) = _____.   □ Squares (☐) = _____.

□ Shaded/colored shapes = _____ individuals with the phenotype.

□ _____ lines connect two mating parents & _____ lines connect parents to offspring.
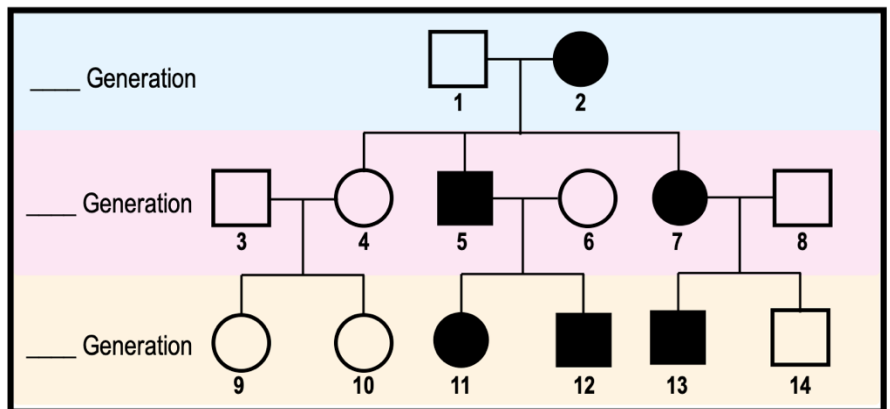
EXAMPLE: Symbols & Connections on a Pedigree.

Symbols in Pedigrees

◯ Unaffected _____	Mating Parents ☐—◯
☐ Unaffected _____	
● _____ Female	Offspring / Siblings
■ _____ Male	

How to Read Pedigrees

●Pedigrees are typically read from _____ to _____ starting from the 1st generation.

EXAMPLE: Determine the relationships between the indicated individuals on the pedigree.

Person #1 is person #5's _____.

Person #7 & person #4 are _____.

Person #11 is Person $6's _____.

____ Generation
1   2

____ Generation
3   4   5   6   7   8

____ Generation
9   10   11   12   13   14

PRACTICE: Diagrams depicting family relationships and phenotypes for a genetic disorder are:

a) Pedigree charts.   b) Karyotypes.   c) Punnett squares.   d) Bell-shaped curves.