

**KEY FACTS**

- Females: XX. Males: XY.
- All eggs carry X. Sperm carry X or Y.
- X sperm + egg = XX = female. Y sperm + egg = XY = male.
- Probability: 50% male, 50% female — each pregnancy independent
- ★ Sex-linked traits: gene on X chromosome. Males more likely affected (XY — only one X, no "backup")

**KEY TERMS**

<b>Sex chromosomes</b>	XX = female, XY = male
<b>Sex-linked</b>	Gene located on the X chromosome — males more often affected by recessive sex-linked conditions

■ EXAM TIP: Sex determination Punnett square: mother (XX) gametes = X and X. Father (XY) gametes = X and Y. Result: XX, XX, XY, XY → 50:50.