

Name:

Prenatal Development Worksheet

1. Explain how the SRY gene works and why it is important to male development.
2. What do Sertoli cells and Leydig cells produce?
3. True or false: Genes, not proteins, cause the response
4. Explain the function of the Anti – Mullerian hormone
5. What happens when a XX chromosome has the SRY gene?
6. What happens when an XY chromosome has a mutated SRY gene?
7. What do primitive sex cords develop into in males? In females?
8. Match the terms to the definition.

Pronephros Mesonephros Metanephros Paramesonephric ducts

Wolffian ducts Mesonephric ducts Mullerian ducts

- A. Functional intermediate kidneys, produce urine that drains into the mesonephric ducts
- B. Final kidney form – which develop functional nephrons
- C. Retained and forms oviducts, uterus, cervix, and portions of the cranial vagina
- D. Another name for the mesonephric ducts, which develops into the male tract
- E. Non-functional primitive form of kidney
- F. Retained and forms epididymis and ductus deferens in males; is vestigial in females

- G. Another name for the paramesonephric ducts, which develops into the female reproductive tract
- 9. How does the body know if the undifferentiated gonad need to develop into either testes or the ovary?
- 10. True or False: the paramesonephric ducts will develop in males while the mesonephric ducts become vestigial.