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Class _____

CHAPTER 13

Chapter Outline

The Human Reproductive System

Lesson 1: Reproductive Systems

reproduc	ctive systems mature and other characteristics develop as
boys get older.	•
1. Male	organs produce and transfer sperm.
- Organs of chown	, including the testes, seminiferous tubules , e located outside the body in a baglike structure called
the	•
b. Sperm are produced inside the _	and stored in
the	• •
c. The epididymis connects to tube	es or ducts called
d. The male'sreproductive system.	transfers sperm in semen to a female's
e. During ejaculation, the sperm n	noves from the vas deferens through
the	
greprodu	active systems produce and carry developing eggs.
	I inside the
 a. The labia protects the opening t deposited. 	o the, where semen is
b. The fertilized eggs develop.	_, above the vagina, is a thick, muscular organ where
c. A tissue called the	lines the uterus.
	the vagina is the
e. A pair of tube.	produces the eggs, releasing them into the fallopian
fus	ually occurs in the fallopian tube.
	ning the fallopian tube carry the egg toward the uterus.
2 . Cell division byborn.	begins to produce egg cells before the female is

Chapter Outline CONTINUED

a. Cell division stops at prophas between 9 and 13.	se 1, until the female begins				
b. At puberty, chemicals signal metaphase II.	oocytes to continue meiosis until				
c fertilization.	oocytes are the egg cells, which do not complete meiosis until				
d. An egg cell and its surroundi	ng cells are				
efallopian tube.	, which occurs every four weeks, is the release of an egg into a				
3. Changes that take place before,	during, and after ovulation are part of				
the	_ - •				
a. Before ovulation the endome vessels	etrium thickens and the number of blood				
b. If the released egg is not	, the endometrium breaks down.				
	The broken-down endometrium, some blood, and the unfertilized egg leave through the				
and the second of the second o	flow over a period lasting four to seven days.				
•	of menstrual flow,occurs.				
	forms and an embryo develops.				
	in the uterus and menstrual bleeding				
g. Chemicals calledand ovulation.	regulate the timing of the menstrual cycle				
4 is between the ages of 46 and 54.	s the stage of life when a woman stops ovulating, usually				
a. Male reproductive systems _	sperm throughout their lives.				
5ovulation.	occurs when a sperm reaches a fallopian tube near the time of				
a. Only one in	of deposited sperm will fertilize a single egg.				

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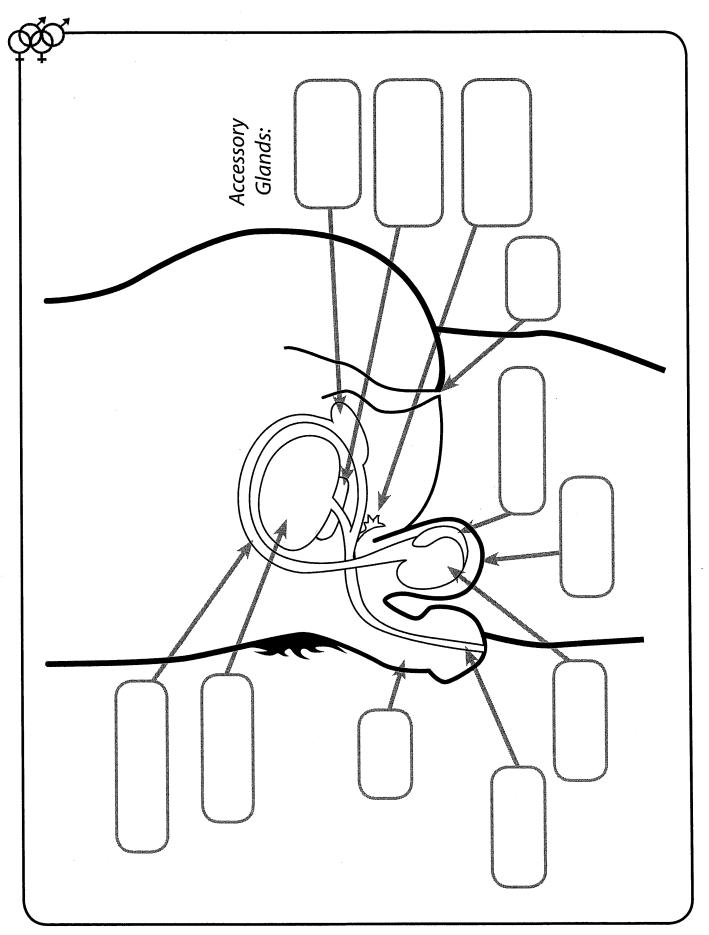
Chapter Outline CONTINUED

Lesson 2: Development Before Birth

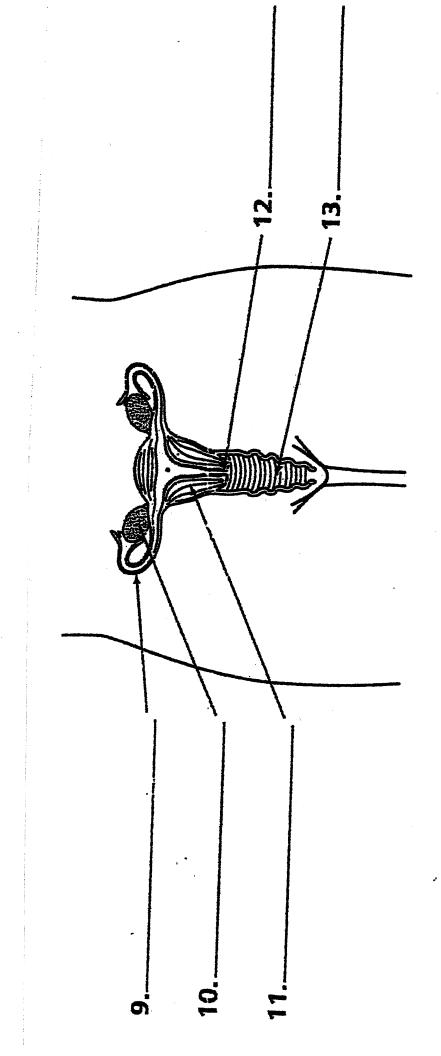
A.	development, from embryo to birth, takes about nine months.				
	1. Cell begins 24 hours after fertilization.				
	2. After about seven days, an embryo of about 100 cells implants into				
	the				
	3. After three weeks, cells form layers, which develop into different body structures.				
	4, the development of a baby within the uterus, is divided into trimesters.				
	a. By the end of the first (eight weeks), an embryo has all the structures of an adult.				
	b. During the second and third trimesters, the embryo is called a				
	c. The pregnant female can feel the fetus's movements during the trimester.				
	d. The fetus grows rapidly, in size, in the third trimester.				
	5. Babies born have not completed fetal development.				
	a. They often must be cared for at the hospital until and other organs fully develop.				
	b. They might have birth weights, learning difficulties, or physical challenges.				
	6. A developing fetus receives and nutrients and gets rid of				
	materials through its mother.				
	a. The exchange of materials occurs through the disc-shaped				
	b. The contains two arteries and one vein that connect the fetus to the placenta.				
	c. Substances and leave the fetus through the umbilical cord.				
	d . After birth, the umbilical cord is				
В	Everything that happens in a pregnant women's body affects health.				

Chapter Outline CONTINUED

care includes information on nutrition, viral infections, and substances that could harm the developing fetus. 2. Vitamins, minerals, proteins, fats, and carbohydrates all pass through a pregnant woman to a. Fruits, vegetables, and ______ grains are all important in a pregnant woman's diet. **b.** A pregnant woman should add about 300 ______ a day to her diet. c. ______ is needed for proper spinal cord formation, and can be taken in supplements. d. A pregnant woman should avoid consuming too much ______, which raises blood pressure and heart rate. 3. Pregnant women should avoid exposure to harmful substances in the environment, including 4. _____ can pass from a pregnant woman to her fetus. a. Some viruses, such as ______, do not seriously harm adults but can cause birth defects. **b.** ______-infected pregnant women must take special precautions. **5.** Pregnant women should consult a doctor before taking any ______. a. Nicotine can increase the risk of ______ birth. **b.** Alcohol use increases the risk of _____ c. Illegal _____ use increases the chance of premature birth and other dangers to the fetus.

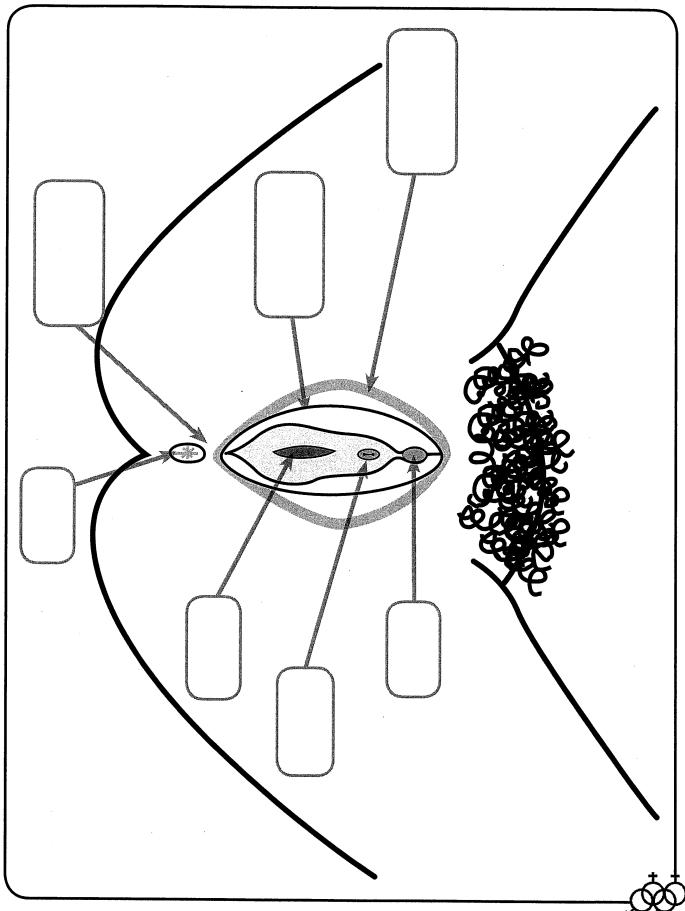














Understanding the Monthly Menstrual Cycle



Day 14 (An egg is released)

The endometrium (the lining of the uterus) thickens in preparation for a fertilized egg

Menstrual bleeding

or "period" can last 3-5+ days, and may vary with illness, exercise or weight change

If **no fertilized egg is implanted**, this tissue will fall away

Menstruation begins on "Day 1"

