The Reproductive System Fill-In Notes

-	e of life:
	to ensure the
Stages o	of Human Development
	exual reproduction requires the (from the mother) by a
	From the father).
■ F	ertilization is the fusion of
m	denetic material becomes and produces a cell hade of of chromosomes for a total of 46 (half from nom and half from dad).
■ T	his cell is called a

Life Stages:

Life Stages.		_
	Stage	Approximate Age
Stages during Pregnancy	■ Zygote	
		■ 2 to 9 weeks
	■ Fetus	
Stages after birth		■ Birth to 2 years
	■ Early Childhood	
		■ 6 to 10 years
	■ Adolescence	
		■ 18-70 years
	Old Age	

Puberty

The	system becomes functional during
adolescence.	
<u>Puberty</u> is when the body under	rgoeschanges to prepare for the ability to
,	See F. F. See See See See See See See See See Se
Generally between the ages of	years old
The beginning of puberty is ma	rked by an
	duction begins at the onset of puberty
Hormones are and control the	, transported by the activity of
·	
They are (mreleased into the bloodstream are tissue	nade) by, nd stimulate activity in an organ or
Hormones and the glands that n	-
The endocrine system regulates	the
growth,regulation of	, reproduction and
Puberty is triggered by two hor	mones secreted by the
The pituitary gland is the size o	of a grape and found at
The two hormones produced ar	e:
and	

■ These stimulate the maturation of the	or the
production of	
■ In women: FSH and LH also stimulate the	
to produce the female sex hormones:	
	til
■ In men: FSH and LH stimulate the	
produce the male sex hormone,	
■ This causes several physical and psychological change	
characteristics	sexual
Characteristics	
Sexual Characteristics: (txbk p. 142, fig.	5.22)
Female (txbk p. 142, fig. 5.23)	,
■ Physiological (Primary)	
<u> </u>	
 Genital organs mature 	
■ Anatomical (Secondary)	
 Silhouette changes (fatty tissue accumulates or 	n breasts and
hips)	
-	
 Underarm and pubic and Pubic Hair appears 	
■ Psychological (Secondary)	
<u> </u>	
- Libido	
_	
 Sense of responsibility to reproduce 	
1 7 1	
Male (txbk p. 143, fig. 5.24)	
■ Physiological (Primary)	
· <u> </u>	
■ Anatomical (Secondary)	
 Skeletal and Muscle growth 	
-	
<u> </u>	
 Facial, Underarm and Pubic hair appears. General hair 	riness increases

■ Psychological (Second	•	
 Need for auto 	onomy	
Iale Hormones		
(the production of s	perm).	
The cells that line th	ne	undergo meiosis to
produce spermatozo	oa ()	undergo meiosis to
Since these cells are	e under constant renev	val, the testicles can produce
		sperm per
'he travel of Sperm: Seminiferous Tubules—	Epididymis -Vas deferens	s- Ejaculatory duct -Urethra
rection and Ejaculat	tion	
Once formed the spe	erm enter the	for
		the
The penis contains		that
fills with blood duri	ng	This
causes		and causes and erection.
■ With stimulation the	e sperm is pushed dov	vn towards the urethra, mixes
	t	
	until the resulting	
		ulsion of semen by the penis)
The acid in urine		, so it is important that
the two do not mix		
During an erection t	two	contract,
making it impossible		

	nones and the Female Body
•	Estrogen
	- Involved in the (the
	changing of the endometrium)
	Affects body shape and growth
•	Progesterone
	 Prepares the uterus for
	Causes the (produce milk) to
	develop in pregnant women
Ooge	enesis: p.144
•	Between months of fetal life, cells near surface of
_	undergo
	They enter, but stop halfway through (meiosis I)
	They are called and are enveloped in
_	called
-	Starting at puberty, one per menstrual cycle can reach and develop into an
	and develop into an
	This process is called (the production
	of ovum through meiosis)
	At puberty: capable of becoming
	ova called <u>oocytes</u>
	ova carica <u>occytes</u>
	About of these oocytes will become ova
	throughout a female's lifetime
•	To be considered fertile, a woman must be able to
Ovar	rian Cycle: p. 145
•	Series of that ovarian follicles undergo every
•	by which a single in order to release an and changes into a
	to encourage the implantation of the ovum in the
	to encourage the implantation of the ovum in the

Follicle	 more	. which
stimulates releas	e of more	,
	as the	
	Ovulation (14th day)	
Increase in	causes the ovar	ian follicle to
	and the od	
	·	
	Corpus Luteum (days 15-28)	
LH promotes the	e of the ovarian	follicle and
	the follicle into the	
	produces	
	to receive a fertilized ovum and	
	of FSH and LH so more ova	won't mature and
released.	d.	/ 1 · ·
	the	(endometriu
If ovum is	, it will then	in the
	nan becomes pregnant).	
•		
11 UV uiii 15	and	ovu
starts.	and	
startsare expelled, and	and I disi	ntegrates, causing

Phase: (days 15 to 28) Lining of uterus continues to thicken. ______increases.

_____ increases.