# **ORLAND HIGH SCHOOL MEDICAL TERMINOLOGY**

In order to provide OHS Medical Terminology students with the best educational opportunities possible during this mandatory school closure, I have provided the following voluntary enrichment items for students. I will provide additional enrichment on April 20<sup>th</sup> if this closure is prolonged.

# Students - just work your way from the top of the list toward the bottom.

### **URINARY SYSTEM:**

Complete the Ch. 9 Vocabulary List

Copy the Urinary System Day 1 notes from the OHS Science website

Complete the Urinary System Coloring Worksheet

Copy the Urinary System Day 2 notes from the OHS Science website

Review the Urinary System Handout

Complete the Urinary System Worksheet #1

Complete the Urinary System Worksheet #2

Complete the Urinary System Practice Quiz

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## **REPRODUCTIVE SYSTEM:**

Complete the Ch. 10 Vocabulary List

Copy the Reproductive System Day 1 notes from the OHS Science website

Review the Reproductive System Handout

Copy the Reproductive System Day 2 notes from the OHS Science website

Copy the Reproductive System Day 3 notes from the OHS Science website

Complete the Reproductive System Coloring Worksheet

Complete the Reproductive System Review Worksheet

Complete the Reproductive System Practice Quiz

MED TERM		NAME		
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# CHAPTER 9: URINARY SYSTEM VOCABULARY LIST

VOCAB. TERM	DEFINITION
AFFERENT ARTERIOLE	
ALBUMIN	
BOWMAN'S CAPSULE	
CATHETER	
DISTAL CONVOLUTED TUBULE	
DYSURIA	
EFFERENT ARTERIOLE	
ELECTROLYTES	
EXTERNAL URETHRAL SPHINCTER	
FILTRATION	
GLOMERULUS	
GLYCOSURIA	
HEMATURIA	

HEMODIALYSIS	
VOCAB. TERM	DEFINITION
HOMEOSTASIS	
INTERNAL URETHRAL SPHINCTER	
KETONURIA	
KIDNEY	
LOOP OF HENLE	
NEPHRON	
NITROGENOUS WASTES	
PERITUBULAR CAPILLARIES	
POLYCYSTIC KIDNEYS	
PROXIMAL CONVOLUTED TUBULE	
PYURIA	
REABSORPTION	
RENAL ARTERY	
RENAL CALYX	
RENAL CORPUSCLE	
RENAL CORTEX	

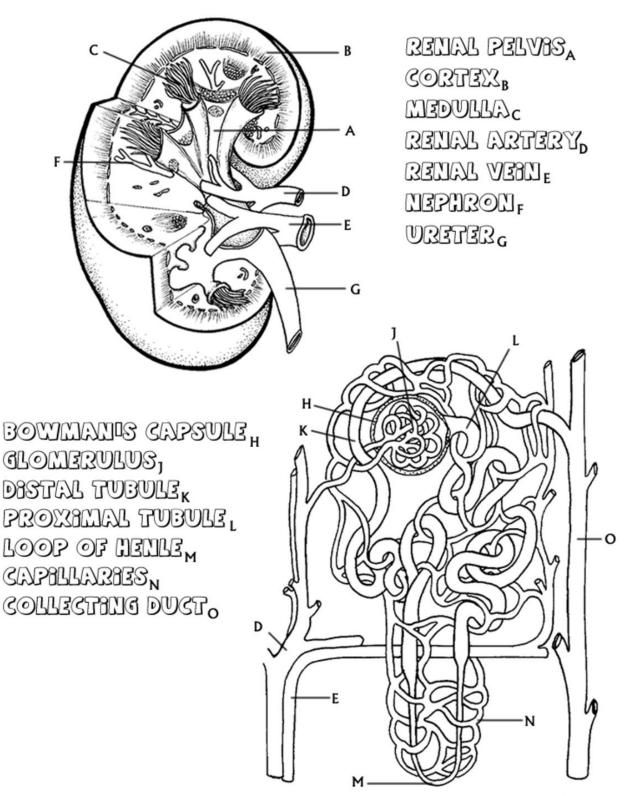
RENAL HILUM	
VOCAB. TERM	DEFINITION
RENAL MEDULLA	
RENAL PAPILLA	
RENAL PELVIS	
RENAL PYRAMID	
RENAL VEIN	
RETROPERITONEAL	
RUGAE	
SECRETION	
UREMIA	
URETER	
URETHRA	
URINALYSIS	
URINARY BLADDER	
URINARY INCONTINENCE	
URINARY TRACT INFECTION	
URINATION	

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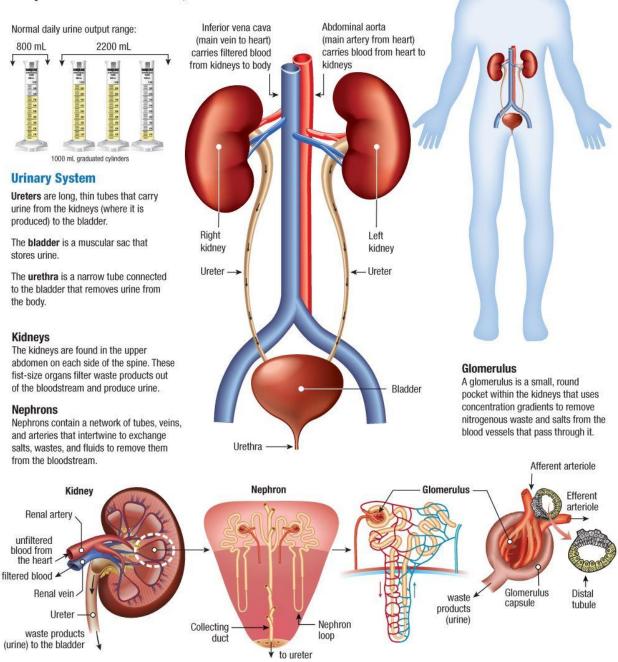
## **URINARY SYSTEM COLORING WORKSHEET**

1. Color the terms and the parts of each diagram below.



# Human Body: Urinary System

The urinary system filters extra water and waste products from the blood to help maintain proper fluid balance inside the body. An elaborate system of tubes and tubules intertwines with arteries and veins within the kidneys to allow for maximum excretion of waste products, such as various salts and proteins. The ureters carry this waste to the bladder, where it is stored until excretion.



MED TERM SICKELS

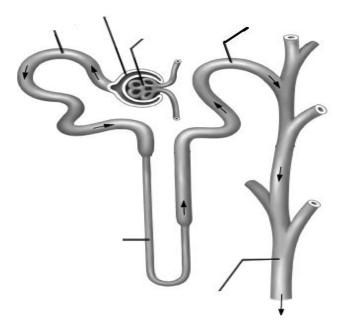
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# **URINARY SYSTEM WORKSHEET #1**

1.	What type of blood exits the kidney?	
2.	The	is the functional unit of the kidney.
3.	What are the three functions of the urinary system	m?
	a)	
	b)	
	c)	
4.	The	_ carries blood from each kidney to the vena cava
	whereas the	carries blood from the aorta to each kidney.
5.	List the two parts of the renal corpuscle.	
	a) b	))
6.	The tip of each renal pyramid opens into a	which empties into
	the which dep	osit the waste materials into the
7.	Write the name of each labeled structure in the s	space provided.
	A	
	В	
	C	F
	D	
	Е	
	F	

8. Label the diagram of a nephron.



- 9. The nephron extends into what two regions of the kidney?
  - a) b)
- 10. What is uremia?
- 11. The \_\_\_\_\_\_ is the portion of the kidney that contains the renal pyramids.
- 12. The \_\_\_\_\_\_\_ is the concave portion of a kidney where the blood vessels and the ureter attach.
- 13. What are the two main regions of the nephron?a)b)
- 14. What is the other name that the urinary system is known as?
- 15. What is the name of the muscular sac that temporarily stores the urine before it is removed from the body?

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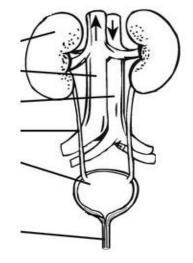
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# **URINARY SYSTEM WORKSHEET #2**

Blood carrying a high concentration of metabolic	wastes, salts, and toxins leaves the heart through	the largest blood
vessel of the body called the	The	extend
from this blood vessel and carry the "dirty" blood	to the left and right kidneys. Each blood vessel	enters the kidney
at a concave region called the	and then branches into smaller	and smaller blood
vessels. These blood vessels carry the blood to the	e functional unit of the kidney called the	
This structure consists of the renal corpuscle and t	he	The blood vessel
entering the renal corpuscle is called the	and has a	
diameter than the	that exits the renal corpuscle, th	us creating a back
up of blood and an	_ in blood pressure. The blood vessel entering th	e renal corpuscle
branches to form the	which allow the plasma and wastes in t	he blood to move
out while keeping the cells in the blood vessel. The	nis process is called	The
fluid is then collected by the	which carries it toward the ren	nal tubule. The
	is the first part of the renal tubu	le which is then
followed by the	which will carry the wastes upw	ard to the
	While in the renal tubule, two p	processes occur:
and	The waste material rema	aining in the renal
tubule is then deposited into the	tl	nat leads to the
The	urine then leaves the kidneys through a pair of the	ubes called the
that lead to a stora	ge area called the	
In order for the urine to leave this storage area, the	2	
(involuntary control) must open to allow the urine	to move into the	Then the
	must open for the urine to actually leave	the body through
a process called		

- a) \_\_\_\_\_ condition where multiple cysts develop within the kidney b) \_\_\_\_\_ painful urination c) \_\_\_\_\_ urine with a high amount of ketones d) flexible tube inserted into the urethra to remove urine e) \_\_\_\_\_\_ a protein in the blood \_\_\_\_\_\_ the maintaining of balance in the human body f) g) the folds of the inner wall of the urinary bladder h) the accumulation of wastes in the bloodstream location of kidneys since they are not in the peritoneal sac i) \_\_\_\_\_\_ the involuntary release of urine i) k) \_\_\_\_\_ the chemical and microscopic examination of urine use of an artificial kidney machine to filter blood 1) m) \_\_\_\_\_ the presence of pus in the urine n) important salts for the body such as  $K^+$  and  $Na^+$
- 1. Write the correct medical term for each of the following descriptions/functions.

- 2. The material removed from the glomerulus is called \_\_\_\_\_\_ and is primarily composed of plasma and nitrogenous wastes.
- 3. Label the structures indicated on the diagram below.



# CHAPTER 9 – URINARY SYSTEM PRACTICE QUIZ

1.	The specific region of the nephron where filtration occurs.
2.	A flexible tube that is inserted through the urethra to release urine.
3.	The condition in which blood is present in the urine.
4.	The third phase of urine production.
5.	This is located between the renal calyces and the ureter.
6.	The term used to describe the position of the kidney in the abdomen.
7.	The renal blood vessels attach to the kidney at this location.
8.	Voluntarily controls the release of urine from the body.
9.	Carries clean blood between the kidney and the inferior vena cava.
10.	Small blood vessels that surround the renal tubule.
11.	The renal papilla and renal pyramids are found in this region of the kidney.
12.	The functional unit of the kidney.
13.	The folds within the urinary bladder.
14.	The location where secretion takes place.
15.	The steady state or balance within the body.
16.	Transports filtered blood away from the renal corpuscle.
17.	The portion of the renal tubule that is completely within the renal medulla.
18.	The material removed from the glomerulus is called
19.	The presence of pus in the urine.
20.	The use of an artificial kidney machine that filters the blood to remove wastes.

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# CHAPTER 10: REPRODUCTIVE SYSTEM VOCABULARY LIST

VOCAB. TERM	DEFINITION
AMNION	
AMNIOTIC FLUID	
ANTEFLEXION	
AREOLA	
BARTHOLIN'S GLANDS	
BULBOURETHRAL GLANDS*	
CERVIX	
CHORION	
CIRCUMCISION	
CLITORIS	
CONCEPTION	
COWPER'S GLAND	
EFFACEMENT	
EJACULATION	
EMBRYO	

VOCAB. TERM	DEFINITION
ENDOMETRIOSIS	
ENDOMETRIUM	
EPIDIDYMIS	
ERECTILE TISSUE	
ESTROGEN	
FALLOPIAN TUBES	
FERTILIZATION	
FETUS	
FIMBRIAE	
FOLLICLE STIMULATING HORMONE	
GENITALIA	
GESTATION	
GLANS PENIS	
HYMEN	
LABIA MAJORA	
LABIA MINORA	
LACTATION	

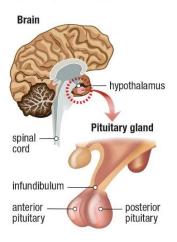
VOCAB. TERM	DEFINITION
LUTEINIZING HORMONE	
MAMMARY GLANDS	
MAMMOGRAM	
MENARCHE	
MENOPAUSE	
MENSTRUATION	
MYOMETRIUM	
OVA	
OVARIES	
OVIDUCTS	
OVULATION	
PAP SMEAR	
PELVIC INFLAMMATORY DISEASE (PID)	
PERIMETRIUM	
PERINEUM	
PLACENTA	
PREGNANCY	

PREPUCE	
VOCAB. TERM	DEFINITION
PROGESTERONE	
PROSTATE GLAND*	
PUBERTY	
SCROTUM	
SEMEN	
SEMINAL VESICLES*	
SEMINIFEROUS TUBULES	
SPERMATOGENESIS	
TESTES	
TESTOSTERONE	
UMBILICAL CORD	
URINARY MEATUS	
UTERINE TUBES	
UTERUS	
VAGINA	
VAGINAL ORIFICE	
VAS DEFERENS	

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# Human Body: Reproductive System

The male and female reproductive systems are controlled by hormones produced by the pituitary gland in the brain, and the reproductive organs themselves.



### **Pituitary Gland**

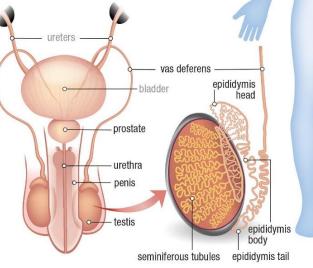
The pituitary gland secretes hormones that control the reproductive organs. It signals the production of sex hormones and controls ovulation and the menstrual cycle in women.

### **The Reproductive Organs**

These organs make, mature, and store gametes, or sex cells, in the human body. The male gametes are called sperm and female gametes are called ova or egg cells. Each gamete contributes half of an offspring's DNA, providing genetic variation through sexual reproduction.

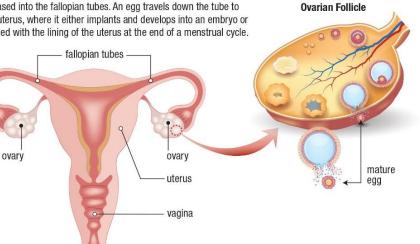
#### Male reproductive system

Sperm is made in the seminiferous tubules and stored in the epididymis. It travels through the vas deferens, where it mixes with seminal fluids and passes through the urethra.



#### Female reproductive system

Immature eggs are found in the ovaries where they mature and are released into the fallopian tubes. An egg travels down the tube to the uterus, where it either implants and develops into an embryo or is shed with the lining of the uterus at the end of a menstrual cycle.

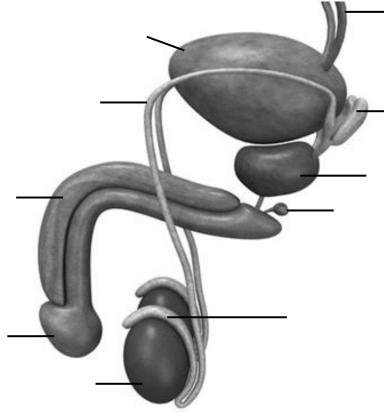


Developing

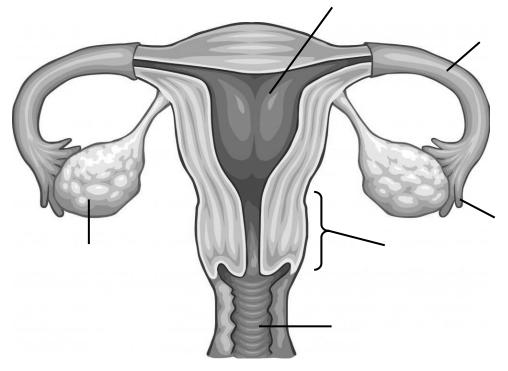
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### MALE REPRODUCTIVE SYSTEM:



FEMALE REPRODUCTIVE SYSTEM:

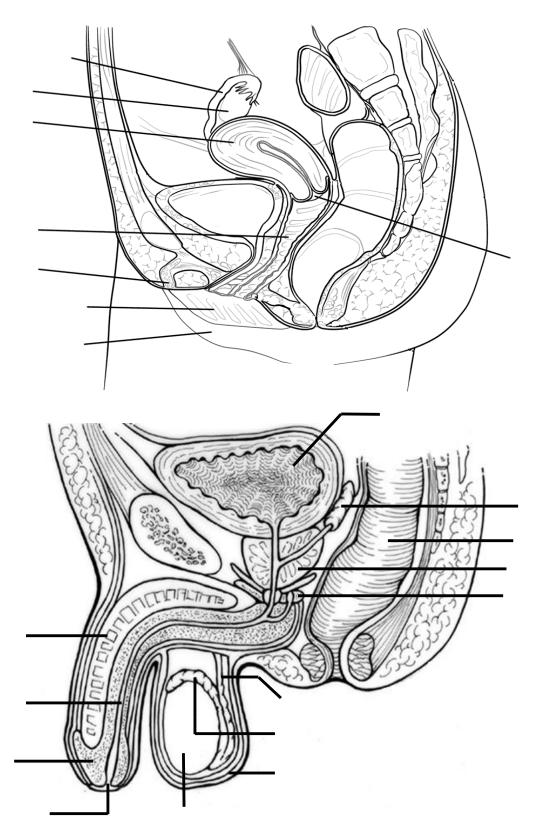


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### **REPRODUCTIVE SYSTEM COLORING WORKSHEET**

DIRECTIONS: Label and color the structures of both the male and female reproductive systems.

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# **REPRODUCTIVE SYSTEM REVIEW WORKSHEET**

# **DIRECTIONS:** Write the correct medical term(s) in the blank spaces to best complete the following summary of the reproductive system.

The male reproductive system	n is composed of several organs that ar	are involved in the production of offspring. The process
begins within the		located in each testis where the male
gamete called	is produced by a process c	called
These immature gametes the	n move to a temporary storage area call	illed the where they
grow and mature until they a	re removed from the body during	Due to the high
body temperature, the testes	are suspended outside of the body with	hin a skin pouch called the
in order to maintain a cooler	temperature and reduce the chance of s	sperm deformities. The male's sperm is deposited into the
female's vagina by a muscula	ar organ called the	In an unaltered male, the soft tip of this organ is
called the	and is covered by a pro-	rotective layer of skin called the
Sometimes, this foreskin will	be removed soon after birth by a proce	cedure called
During sexual arousal, blood	flow is diverted to the	within the
penis, causing it to elongate a	and become erect. When the male reac	ches orgasm, muscle contractions force the sperm out of each
epididymis and into a narrow	tube called the	These two tubes will then connect to
a single tube called the	that will carry	y both sperm and urine (not at the same time) out of the body
Along this single tube, there	are three organs that add material to the	he sperm, creating a fluid called
This fluid will then exit the p	enis through an opening called the	
into the female's vagina.		
The female reproductive syst	em is also composed of several organs	s that are involved in producing offspring. The process
begins when the two	produce the female ga	ametes called The growth of these
gametes is controlled by a ho	rmone called	
Each month, a hormone calle		stimulates the release of one egg by a
process called	This egg is swep	ept into the
with the help of finger-like p	rojections called	The egg then travels through this passageway

and if sperm is not present, the egg	will continue on to a muscular	sac called the	It
will then pass through the final $1/3$	of this organ called the	and the	en move through a muscular
tube called the	that leads to an opening	g called the	
that leads to the outside of the body	. This opening is covered by tw	o protective flaps of skin. Then	innermost layer is called
the	and the outermost la	ayer is called the	
which is covered with pubic hair. E	Because no pregnancy has taken	place, the hormones	and
	cause the lining of the u	terus to slough off and leave the	e body by a process called
If sperm is present in the fallopian t	ube, the egg & sperm may join t	together to form a	by a
process called	This dip!	loid cell then travels to the uteru	us where it attaches to the
blood-rich inner lining called the		The zygote goes	through mitosis to form an
a	nd after week eight, it is now cal	lled a	During this entire
time, the baby is surrounded by an i	nner membranous sac called the	2	and is suspended in
a liquid called	<i>.</i>	Additionally, there is a second, r	nore superficial layer
surrounding the baby called the		which protects the developing b	baby and also helps to form
the	which is a flattened, circula	ar organ that provided nourishm	ent to the baby through the
	during the pregr	nancy. Once the	period of
40 weeks is complete, the female's	cervix will begin to expand to a	pproximately 10 cm during the	
stage. Next, the muscular layer of t	he uterus called the		will begin to contract
to push the fetus out of the uterus ar	nd through the vaginal canal dur	ing the	stage.
After the fetus is expelled from the	female's body, the contractions	of the uterine wall continue to r	emove the placenta from the
body during the	stage.	Once the baby is delivered, cle	aned, and has rested, it will
often be hungry. At this point it wil	l attach to the female's nipple o	n her	
which is surrounded by a pigmented	l region called the	With	nin the breast are specialized
structures called		which produce	nourishing milk by a process
called			

1. What are the two functions of testosterone?

- a)
- b)

2.	What is the term used to describe the forward tilt of the uterus?
3.	What four organs contribute to semen? Describe what material each produces to form the semen.
	a)
	b)
	c)
	d)
4.	What are the three layers of the uterine wall from inside to outside?
	a)
	b)
	c)
5.	What are the two functions of the solution produced by the prostate gland?
	a)
	b)
6.	is the period of time that the baby develops in the mother's uterus.
7.	List the three sections/regions of the uterus. Describe each.
	a)
	b)
	c)

- 8. What is the function of Bartholin's gland?
- 9. The thin membrane that initially covers the vaginal orifice is called the \_\_\_\_\_\_.

## **REPRODUCTUVE SYSTEM PRACTICE QUIZ**

The thinning of the cervix during the dilation phase of labor. 1. \_\_\_\_\_ Produces a material that neutralizes the female's mucus. 2. The protective layer of skin that covers the glans penis. 3. The opening of the penis to the outside environment. \_\_\_\_\_ 4. 5. Stage in the birthing process where the myometrium contracts. The process of producing sperm within the testes. 7. The process caused by luteinizing hormone. \_\_\_\_\_ \_\_\_\_\_ 8. The ending of menstrual activity occurring between ages 40 & 55. 9. These structures produce milk for nourishing the newborn. 10. In both males & females, this tissue has many nerves for stimulation. 11. The muscular layer of the uterus. 12. The removal of the foreskin surrounding the male's glans penis. 13. This hormone causes ova to mature within the ovaries. \_\_\_\_\_\_14. Finger-like projections that move the egg into the fallopian tube. \_\_\_\_\_\_ 15. During gestation this is the term for the infant after week eight. \_\_\_\_\_\_ 16. This is located between the testis and the vas deferens. \_\_\_\_\_ 17. The main portion of the uterus where the embryo develops. 18. The thin membrane covering the vaginal orifice. \_\_\_\_\_\_ 19. The membrane surrounding the fetus and is filled with fluid. \_\_\_\_\_ 20. This is the exact location where sperm are formed.