Cheatography

Hon Biology Anatomy Cheat Sheet by Katie_right1738 via cheatography.com/83429/cs/19776/

External Features

Anterior (Cranial) toward the head

Posterior (Caudal) toward the tail

Dorsal (Superior) toward the backbone

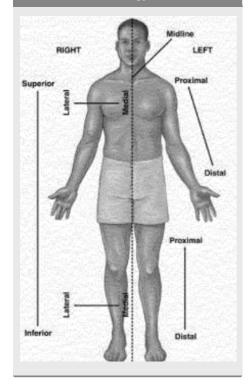
Ventral (Inferior) toward the belly

Lateral toward the side

toward the midline

Anatomical Terminology

Medial



Locomotion

Quadruped	walks on four legs
Biped	walks on two legs

Identify Mammals

Identify Mammals (cont)

Abdominal Below the diaphragm,
Cavity digestion

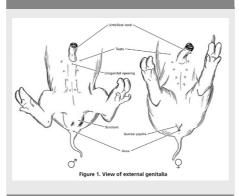
Sense Features

Nares	nostrils used for breathing and smelling
Pinnae	External ears.
Vibrissae	Whiskers, act as sealers sensitive to things close
Nictitating Membrane	Thrid lid-like structure in the corner of the eye. Protects eye from debris. (Humans do <i>NOT</i> have one)

Male or Female

Urogenital opening	allows reproductive and excretory material (like urine) out of the body.
Male urogenital opening	posterior to the umbilical cord on the ventral surface.
Female urogenital opening	covered by a flap of tissue: genital papilla ventral to the anus.

Male or Female



Compare and Contrast pigs to humans.

Simila-	Mammary papilla, hair, umbilica
rities	cord
Differ-	Skeleton, thick hair, nictitating
ences	membrane

Macromolecules		
Carbohydrates	mouth, small intestine	
Proteins	stomach, duodenum	
Lipids	small instestine	
Nucleic Acids	small instestine	

Chemical vs Mechanical		
Mechanical	breaks big food into small food	
Chemical	breaks down starch into simple sugar, destroys food and harvests nutrients	

To the Stomach		
Perstalsis	Contractions of smooth	
	muscle that aid in swalld	

muscle that aid in swallowing (helps move food through esophagus)

Chyme Partially digested semi liquid food bolus that passes from the stomach to the small

intestine

Esophagus Food tube connecting the

mouth to the stomach

Pepsin enzyme released by the stomach that digest protiens

Lipase enzyme released by the pancreas that digests fat

Amylase enzyme released by salivary

glands in the mouth and by the small intestine that digests straches into simpler

carbohydrates

Peptidase enzymes that break down and proteins into amino acids in Trypsin the small intestine

Trypsin the small intestine

Maltase, enzymes the break down
Lactase, sugars into simpler molecules

Lactase, sug Sucrase

Pancreas	
Pancreas	creates insilin and enzymes to break down molecules (sugars)
Alkaline	neutralize the acid content of the chyme
Lipase	digests fat, protien, and sugars
Insulin	a hormone that allows sugars to enter the cells from the blood

Umbilical Cord provides food and oxegen from mother to the fetus and the movement of wastes from the fetus to the mother. Mammary nipples Papilla Mammary develops beneath the Glands mammary papilla in the Umbilical Cord, Hair, Three external Mammary Glands physical characteristics that indicate the pig is a mammal: Above the diaphragm, Thoracic Cavity



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breathing and heart

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Small Intestine

Villi Tiny projections tha cover the lining of the folds of the small intestine

The **folds**, **villi** and **microvilli** projections increase the surface area of the intestine, greatly increasing the rate of *absorbtion* of nutrients.

Duodenum	diffuse into the circulatory system and are carried to the liver. (small piece from the stomach to the bigger part)	Absorbs: sugar, amino acids, calcium, and iron
Jejunum	Diffuse circulatory system to be distributed throughout the body (first large section of the small intestine)	Absorbs: glucose, amino acids, vietamin C & B, and water
lleum	Empty into lymph and blood vessels and are distri- buted to the cells (End section of small intesine)	Absorbs: fat-sa- luable vitamins, vitamin B, fatty acids, choles- terol, and some water
Bile	an emulsifier which means it breaks down large molecules of lipidsinto smaller ones. (stored in gull bladder, and made in small intestine)	
Aborbtion	help the circulator	•

Contrast pigs to humans.	
Pigs	7 lung lobes (4 on right side, 3 on left), Colon is not spiral, does
	not use cecum?
Humans	5 lung lobes (3 on right, 2 on left), spiral large intestine
	(square shape)

Organs

Stomach	makes pepsin, contains hydrochlic to digest protiens	
Liver	builds more complex molecules, that are need by cells (glycogen)	
Large Intestine (called spiral colon in the pig)	Absorb water, bile, salts, and electrolytes	
Feces in stoed in the rectom and is eliminated through the anus		
Salivary Glands	makes saliva to moisten food and begin the digestive system	
Teeth	break down food to make it smaller	
Hard and soft Palate	Seperate mouth from nose cavities	
Esophagus	passes food down to stomach	
Glottis	opening to larynx	
Epiglottis	Block food from going into lungs	
Tongue	moves food in mouth help push food down esophagus	
Cecums (Appendix)	a tube-shaped sac attached to and opening into the lower end of the large intestine	



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