Cheatography

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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
Medial	toward the midline

Anatomical Terminology



Locomotion	
Quadruped	walks on four legs
Biped	walks on two legs

Identify Mammals

Identify Mammals (cont)

Below the diaphragm, digestion
res
nostrils used for breathing and smelling
External ears .
Whiskers, act as sealers sensitive to things close
Thrid lid-like structure in the corner of the eye. Protects eye from debris. (Humans do <i>NOT</i> have one)
ale
allows reproductive and excretory material (like urine) out of the body.
posterior to the umbilical cord on the ventral surface.
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, umbilical	
rities	cord	
Differ-	Skeleton, thick hair, nictitating	
ences	membrane	

MacromoleculesCarbohydratesmouth, small intestineProteinsstomach, duodenumLipidssmall instestineNucleic Acidssmall 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 Cont

Perstalsis	Contractions of smooth 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 and Trypsin	enzymes that break down proteins into amino acids in the small intestine
Maltase, Lactase, Sucrase	enzymes the break down sugars into simpler molecules

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

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

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Small Intes	tine		Contrast	pigs to humans.
Villi	Tiny projections tha cover the lining of the folds of the small intestine		Pigs	7 lung lobes (4 on right side, 3 on left), Colon is not spiral, does not use cecum?
The folds , villi and microvilli projections increase the surface area of the intestine, greatly increasing the rate of <i>absorbtion</i> of nutrients.		Humans	5 lung lobes (3 on right, 2 on left), spiral large intestine (square shape)	
Duodenum	diffuse into the	Absorbs:	Organs	
	circulatory system and are carried to the	sugar, amino acids,	Stomach	makes pepsin, contains hydrochlic to digest protiens
liver. (small piece from the stomach to the	calcium, and iron	Liver	builds more complex molecules, that are need by cells (glycogen)	
atory system to glu be distributed any throughout the aci body (first large vie section of the & I	Absorbs: glucose, amino acids,	Large Intestine (called spi colon in th pig)		
	vietamin C & B, and water		Feces in stoed in the rectom and is eliminated through the anus	
small intestine) Ileum Empty into lymph and blood vessels and are distri- buted to the cells (End section of small intesine)	Empty into lymph and	Absorbs: fat-sa- luable vitamins, vitamin B, fatty acids, choles- terol, and some	Salivary Glands	makes saliva to moisten food and begin the digestive system
	and are distri- buted to the cells (End		Teeth	break down food to make it smaller
			Hard and Palate	soft Seperate mouth from nose cavities
	intesine)		Esophagu	s passes food down to stomach
		water	Glottis	opening to larynx
Bile an emulsifier which means it breaks down large molecules of lipidsinto smaller ones. (stored in gull bladder, and made in small intestine)		Epiglottis	Block food from going into lungs	
		Tongue	moves food in mouth help push food down esophagus	
Aborbtion	help the circulato lymphatic system	-	Cecums (Appendix	a tube-shaped sac attached to and opening into the lower end of the

mans.

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large intestine