

PIG PORKFOLIO 2012

All Diagrams need to be at least 1/2 a page each!!!

ILLUSTRATED COVER PAGE

1. Title
2. Group Members' Name & Period
3. Course and Teacher
4. Diagram/picture/collage pertaining to pigs (also give your pig a name!!!)

PART A: External Anatomy (2 drawings and questions required!!)

1. **Draw** a detailed, labeled, colored diagram of the external anatomy of your pig
Label anterior, posterior, lateral, dorsal, and ventral in your drawing.
2. The approximate age of your pig
3. The sex of your pig
4. The name of your pig =)
5. **Draw** a detailed, labeled, colored diagram of the cross-section of the umbilical cord.
6. What is the function of the umbilical cord?

PART B: The Dissection

1. Describe or draw the steps taken during the initial dissection of your fetal pig when looking at the digestive system. Must be detailed!!!

PART C: The Digestive Tract (4 drawings and questions required!!)

1. **Draw** a detailed, labeled, colored diagram of the internal anatomy of the pig.
 - a. **Draw and Label** the parts of the digestive tract: *esophagus, stomach, pancreas, liver, gall bladder, bile duct, small intestine, mesentery, appendix, large intestine, and rectum.*
2. **Draw** a more detailed diagram of the liver and **describe** its appearance (color and texture)
3. What is the function of the liver?
4. **Draw** a more detailed diagram of the gall bladder and **describe** its appearance.
5. What is the function of the mesentery? What does it look like?
6. How does the length and diameter of the small intestine compare to the large intestine? How does each organ maximize surface area?
7. What is the function of the small intestine?
8. What is the function of the large intestine?

9. **Draw** a more detailed diagram of the pancreas and **describe** its appearance.
10. What does the pancreas do and what digestive system organ does it feed into?
11. List in order of the organs through which food passes, starting with the mouth and ending with the anus. **Describe** what happens at each place.

PART D: The Circulatory and Respiratory Systems (4 drawings and questions required!!)

1. **Draw** a detailed, labeled, colored diagram of the trachea, esophagus, larynx, thyroid and lungs.
2. **Draw** a detailed, labeled, colored diagram of the **front, back and longitudinal section** of the heart.
3. What is the function of the coronary artery?
4. Which chambers of the heart are larger and more muscular? Why?
5. What is the difference between the atrium and the ventricle? Which one is larger? Why?
6. Describe 3 differences between arteries and veins.

Part E: Urogenital (3 drawings)

1. **Draw** a detailed, labeled, colored diagram of the kidneys, ureter, renal artery and vein, and the bladder. **Describe** the function of each part.
2. **Draw** a detailed, labeled, colored diagram of the testes and seminal vesicles. **Describe** the function of each part.
3. **Draw** a detailed, labeled, colored diagram of the ovaries and fallopian tubes. **Describe** the function of each part.

Discussion Questions (Individually...to be turned in with Group Porkfolio):

1. Some biologists consider the fetus-mother relationship to be similar to a parasite-host relationship (like the tapeworm). How would you support this position?
2. Animals always want to get the most from their resources by increasing the surface area throughout their organ systems. Please cite **5 examples** and how it does this.
3. Reflect on the dissection...what did you like...what did you learn? What could be improved...how does it relate to the class? (3/4-1 page minimum for this question)