frog dissection answer Academic PDF

frog dissection answer: A Comprehensive Guide to Understanding the Anatomy and Purpose of Frog Dissection

Dissection of frogs has long been a foundational activity in biology education, providing students with hands-on experience to explore vertebrate anatomy. This practice offers valuable insights into organ systems, physiological functions, and evolutionary biology. In this article, we will delve into the purpose of frog dissection, the key anatomical features, safety protocols, and common questions students have about this educational activity.

The Importance of Frog Dissection in Biology Education

Why Dissect Frogs?

Frogs are ideal specimen for dissection due to their manageable size, relatively simple anatomy, and the similarity of their organ systems to those of humans and other vertebrates. Dissecting frogs allows students to:

- Visualize internal structures firsthand
- Understand organ functions and relationships
- Compare amphibian anatomy to other vertebrates
- Develop skills in scientific observation and dissection techniques

Educational Benefits

Engaging in frog dissection enhances learning by:

- Reinforcing theoretical knowledge through practical experience
- Encouraging curiosity and scientific inquiry
- Improving spatial understanding of anatomy
- Promoting respect for living organisms and ethical considerations

Preparation for Frog Dissection

Materials Needed

Before beginning, students should ensure they have:

- Dissection tray
- Scalpel or dissecting scissors
- Forceps
- Dissecting pins
- Scalpel handle and blades
- Gloves and safety goggles
- Dissection microscope (optional)
- Dissection manual or guide

Safety Protocols and Ethical Considerations

- Always wear gloves and goggles to prevent exposure to preservatives or biological material.
- Handle tools carefully to avoid injury.
- Dispose of specimens and materials according to your institution's guidelines.
- Respect the specimen; treat it with care and dignity.
- Ensure that dissection is ethically justified and approved by your educational institution.

Frog Dissection: Step-by-Step Overview

Initial Examination

Begin by observing the external features:

- Note the frog?s coloration, size, and skin texture.
- Identify external organs such as eyes, tympanic membranes, and limbs.

Preparing for Internal Dissection

- Place the frog dorsal side up on

Frog dissection answer is a fundamental component of biology education that offers students a hands-on approach to understanding vertebrate anatomy and physiology. This practical activity allows learners to explore the internal structures of a living organism, fostering a deeper comprehension of biological systems and their interrelations. As an educational tool, frog dissection serves not only to enhance theoretical knowledge but also to develop skills such as careful

observation, precise dissection techniques, and scientific documentation. In this article, we will provide an in-depth review of frog dissection, examining its educational benefits, challenges, and best practices to maximize learning outcomes.

Understanding the Educational Importance of Frog Dissection

Frog dissection has long been a staple in biology curricula worldwide. Its significance lies in offering a tangible experience that bridges the gap between textbook diagrams and real-life anatomy. By dissecting a frog, students can visualize and identify organs within the context of a living organism, which enhances retention and comprehension.

Key Learning Objectives

- Identification of major organ systems: circulatory, respiratory, digestive, reproductive, and nervous systems.
- Understanding of organ functions and their interconnections.
- Development of dissection and observational skills.
- Appreciation for biological diversity and evolutionary relationships.

Benefits of Dissection in Education

- Active Learning: Engages students in a tactile experience that promotes better understanding than passive learning.
- Visualization: Allows direct observation of structures that are often abstract in textbooks.
- Critical Thinking: Encourages analysis, hypothesis formation, and problem-solving.
- Preparation for Advanced Biology: Builds foundational skills necessary for more complex scientific investigations.

Features and Components of Frog Dissection

Frog dissection kits typically include a range of tools and materials designed to facilitate a safe and effective dissection process. Understanding these components helps educators and students prepare adequately.

Common Tools and Materials

- Dissection scissors
- Scalpel blades

- Forceps/tweezers
- Dissection pins
- Dissection tray
- Gloves and safety goggles
- Preserved frog specimen (fresh or formaldehyde-fixed)

Typical Dissection Process Overview

- Preparation: Setting up the workspace, donning safety equipment.
- External Examination: Noting external features, markings, and identifying landmarks.
- Initial Incision: Making careful cuts to open the body cavity.
- Internal Exploration: Identifying and examining internal organs.
- Documentation: Taking notes, drawing diagrams, or photographing findings.
- Closure and Cleanup: Proper disposal of specimens and tools.

Pros and Cons of Frog Dissection

While frog dissection offers numerous educational benefits, it also presents certain challenges and ethical considerations.

Pros

- Enhanced Understanding: Provides real-life insight into vertebrate anatomy, improving theoretical knowledge.
- Skill Development: Fosters manual dexterity and observational skills.
- Engagement: Often more engaging than lectures or passive readings, increasing student interest.
- Preparation for Future Studies: Prepares students for higher-level biological research or medical studies.

Cons

- Ethical Concerns: Animal dissection raises questions about animal rights and welfare.
- Cost and Resources: Dissection kits and preserved specimens can be expensive and require proper disposal.
- Potential for Discomfort: Some students may find dissection activities distressing or uncomfortable.
- Limited Diversity: Using only frogs may oversimplify complex biological variations across

species.

Alternatives to Traditional Dissection

Recognizing ethical and practical issues, educators have explored alternative methods that aim to replicate or replace dissection experiences.

Virtual Dissection Software

- Interactive simulations that mimic dissection procedures.
- Pros: Cost-effective, accessible, no animal use, repeatable.
- Cons: Lacks tactile experience, may not fully replicate hands-on skills.

3D Models and Specimen Kits

- Physical models or synthetic specimens that demonstrate anatomy.
- Pros: Reusable, ethical, safe.
- Cons: May lack the complexity of real tissues.

Video Demonstrations

- Recorded dissections performed by instructors.
- Pros: Visual learning aid, reduces resource needs.
- Cons: No hands-on experience, limited engagement.

Best Practices for Effective Frog Dissection

To maximize educational benefits and address potential ethical concerns, certain best practices should be followed.

Preparation

- Obtain specimens ethically, ensuring they are sourced responsibly.
- Provide thorough safety instructions and proper protective gear.
- Prepare clear guidelines and objectives for the activity.

Conducting the Dissection

- Emphasize patience, precision, and respect for the specimen.
- Encourage students to document their observations systematically.
- Promote teamwork and discussion to enhance learning.

Post-Dissection Reflection

- Engage students in discussing what they learned.
- Address ethical considerations and alternative methods.
- Encourage critical thinking about scientific practices.

Conclusion: Evaluating the Role of Frog Dissection in Education

Frog dissection answer remains a vital educational strategy for teaching anatomy and physiology in biology. Its tangible, immersive nature offers unparalleled insights into vertebrate structures, making complex concepts more accessible. However, it must be balanced with ethical considerations, resource management, and alternative approaches. When executed thoughtfully, frog dissection can inspire curiosity, foster scientific skills, and deepen understanding of biological systems. Educators should strive to create a respectful, inclusive, and ethically responsible dissection experience, supplementing it with modern tools such as virtual simulations and models to cater to diverse student needs and values. Ultimately, the goal is to cultivate a well-rounded scientific literacy that appreciates both the value of hands-on learning and the importance of ethical stewardship in science education.

QuestionAnswer What is the purpose of a frog dissection in biology classes? Frog dissection helps students learn about vertebrate anatomy, understand organ systems, and develop hands-on lab skills. What are the common steps involved in a frog dissection? The steps include preparing the workstation, making the initial incision, exposing internal organs, studying anatomy, and properly disposing of biological materials. Which tools are essential for a frog dissection? Essential tools include dissection scissors, forceps, scalpels, dissection pins, and dissecting trays. How do I identify the frog's major internal organs during dissection? Look for the heart, lungs, liver, stomach, intestines, and reproductive organs; diagrams and labels can help in identification. Are there safety precautions to follow during frog dissection? Yes, always wear gloves and goggles, handle sharp instruments carefully, and dispose of biological waste properly. Can I perform a frog dissection at home for educational purposes? It's not recommended due to safety and ethical considerations; always conduct dissections in a supervised educational setting. What are some alternative methods to frog dissection for studying anatomy? Alternatives include virtual dissection software, 3D models, and detailed anatomical videos. How can I prepare for a frog dissection to ensure a successful experience? Review anatomy diagrams beforehand, gather all necessary tools, follow instructions carefully, and stay attentive throughout the process.

Related keywords: frog dissection, frog anatomy, dissection guide, biology dissection, frog anatomy worksheet, dissection answers, frog dissection steps, educational dissection, anatomy labeling, biology lab activity

Virtual fetal pig dissection answers

Virtual Fetal Pig Dissection Answers: A Comprehensive Guide for Students and Educators

Virtual fetal pig dissection answers have become an invaluable resource for students and educators alike, especially in an era where digital learning tools are rapidly transforming science education. Whether you're preparing for your lab practical, studying for an exam, or seeking to deepen your understanding of mammalian anatomy, having access to accurate, detailed answers can make all the difference. This article provides an extensive overview of virtual fetal pig dissection, offering insights into common questions, detailed anatomical descriptions, and tips for maximizing your virtual dissection experience.

Understanding Virtual Fetal Pig Dissection

What Is Virtual Fetal Pig Dissection?

Virtual fetal pig dissection is an interactive, computer-based simulation that mimics the process of dissecting a real fetal pig. It allows students to explore the anatomy of the pig in a detailed, three-dimensional environment without the need for physical specimens. These simulations often include labeled diagrams, quizzes, and guided activities designed to help learners identify structures and understand their functions.

Benefits of Virtual Dissection Over Traditional Methods

- Safety and Ethics: Eliminates ethical concerns associated with real animal dissection.
- Accessibility: Accessible from any location with internet access, facilitating remote learning.
- Cost-Effective: Reduces expenses related to purchasing or maintaining physical specimens.
- Repeatability: Allows students to revisit and review dissections multiple times without degradation of specimens.
- Enhanced Learning: Incorporates multimedia elements like videos, animations, and quizzes to reinforce learning.

Common Questions and Answers in Virtual Fetal Pig Dissection

- What are the main external features of the fetal pig?

Answer:

The external features help orient students during dissection and include:

- Snout: The pig?s nose used for sensing the environment.
- Ears: Located on the top of the head, used for hearing.
- Limbs: Four limbs, with forelimbs and hind limbs, each ending in hooves.
- Tail: The small tail at the posterior end.
- Umbilical Cord: Connects the fetus to the placenta, visible on the ventral side.
- Ventral and Dorsal Surfaces: The underside (ventral) and back (dorsal) of the pig.

- How do you identify the external reproductive organs in the fetal pig?

Answer:

Reproductive structures vary between males and females:

- Male Fetal Pig:
- Scrotal Sacs: Located near the hind legs, containing testes.
- Urogenital Opening: Located at the umbilical cord or near the umbilical region.

- Female Fetal Pig:
- Vulva: Located ventrally near the hind end.
- Urogenital Opening: Located just below the anus, leading to the urogenital tract.

Tip: Always check the virtual dissection guide for visual cues and labels to accurately identify reproductive organs.

- What are the major internal organs of the fetal pig and their functions?

Answer:

The fetal pig?s internal organs mirror many human organ structures, making it an excellent model for study. Key organs include:

- Heart: Pumps blood through the circulatory system.
- Lungs: Responsible for gas exchange (oxygen in, carbon dioxide out).
- Liver: Processes nutrients, detoxifies, and produces bile.
- Stomach: Begins digestion by breaking down food with acids and enzymes.
- Intestines (Small and Large): Absorb nutrients and water; eliminate waste.
- Kidneys: Filter blood to produce urine.
- Pancreas: Produces insulin and digestive enzymes.
- Spleen: Filters blood and helps fight infections.
- Bladder: Stores urine before excretion.
- Reproductive organs: Vary by sex but include ovaries or testes.

- How do you locate and identify the pig?s digestive system in a virtual dissection?

Answer:

The digestive system runs along the length of the pig?s body cavity and includes:

- Esophagus: Connects the mouth to the stomach; located dorsally near the neck.
- Stomach: Located on the left side of the body cavity.
- Small Intestine: A coiled tube filling most of the abdominal cavity.
- Large Intestine: Encircles the small intestine; wider and shorter.
- Liver: Large, lobed organ situated anteriorly and to the right.
- Gallbladder: Small sac beneath the liver.
- Pancreas: Flat gland located near the stomach and small intestine.
- Rectum and Anus: Terminal parts of the digestive tract.

Virtual dissection tip: Use the labeled diagram feature to click on structures for detailed descriptions.

- What are the key features of the fetal pig?s circulatory system?

Answer:

The circulatory system includes:

- Heart: Located in the thoracic cavity, with four chambers?right and left atria, right and left ventricles.
- Aorta: The main artery carrying oxygenated blood from the heart to the body.

- Vena Cava: Large veins bringing deoxygenated blood from the body to the heart.
- Pulmonary Arteries and Veins: Carry blood between the heart and lungs.
- Coronary Arteries: Supply blood to the heart muscle.
- Blood Vessels in the Neck and Limbs: Distribute blood to the extremities.

Tips for Effective Virtual Fetal Pig Dissection

Maximize Your Learning Experience

- Use Interactive Features: Labels, quizzes, and 3D rotations enhance understanding.
- Follow Guided Instructions: Many simulations include step-by-step dissection guides.
- Take Notes: Record structure names, functions, and interesting facts.
- Compare with Textbooks: Cross-reference virtual findings with diagrams and descriptions.
- Repeat Dissections: Practice multiple times to reinforce identification skills.

Common Challenges and How to Overcome Them

- Difficulty in Identifying Structures: Use labels and zoom functions.
- Confusing Similar Structures: Study detailed diagrams beforehand.
- Limited Tactile Feedback: Rely on visual cues and virtual labels to compensate.

Additional Resources for Fetal Pig Dissection

- Educational Websites: Such as [BioDigital](https://www.biodigital.com/) and [Anatomy Atlases](https://anatomy.app/).
- Dissection Videos: Many educational channels offer detailed virtual dissection videos.
- Practice Quizzes: Available online to test your knowledge.
- Teacher Guides: For teachers to facilitate virtual dissection sessions.

Final Thoughts

Virtual fetal pig dissection answers provide a detailed and accessible way to learn mammalian anatomy without the need for physical specimens. By understanding the common questions, anatomical features, and effective study tips outlined in this guide, students can enhance their comprehension and retention of key biological concepts. Whether used as a supplement to traditional dissection or as a primary learning tool, virtual dissection is a powerful method for exploring the complex inner workings of mammals in a safe, ethical, and engaging manner.

Remember, the goal is not just to memorize structures but to understand their functions and how they work together within the organism. Embrace the virtual dissection experience, utilize available resources, and deepen your appreciation for biological diversity and complexity.

Frequently Asked Questions (FAQs)

Q1: Can virtual dissection completely replace real dissection?

A: While virtual dissection offers many benefits and can effectively teach anatomy, it may not fully replicate the tactile experience of real dissection. Combining both methods provides the most comprehensive learning.

Q2: Are virtual dissection answers available for all dissection platforms?

A: Most platforms provide detailed guides and labels, but specific "answers" may vary. Always consult your instructor or official resources for accurate identification.

Q3: How can I ensure I am accurately identifying structures in virtual dissection?

A: Use the label and highlight features, cross-reference with textbook diagrams, and practice regularly to build confidence in your identification skills.

By following this comprehensive guide, students and educators can navigate virtual fetal pig dissection with confidence, gaining a thorough understanding of mammalian anatomy and physiology through accurate and engaging digital resources.

Virtual Fetal Pig Dissection Answers: An In-Depth Exploration of Digital Anatomy Education

In recent years, the landscape of biological education has undergone a significant transformation, driven largely by technological advancements and the increasing demand for accessible, ethical, and safe learning tools. Among these innovations, virtual dissection platforms for fetal pigs have gained prominence, providing students with interactive, detailed explorations of mammalian anatomy without the need for traditional dissection. This shift raises a critical question: what are the answers and educational benefits associated with virtual fetal pig dissection? This comprehensive review aims to explore the intricacies of virtual dissection, its educational implications, and how students and educators can effectively utilize these digital resources.

Introduction to Virtual Fetal Pig Dissection

The fetal pig has long served as a cornerstone in biology and anatomy curricula, offering students tangible insights into mammalian organ systems, developmental stages, and comparative anatomy.

Traditionally, physical dissection involved ethical considerations, safety risks, and resource constraints. Virtual dissection platforms have emerged as a compelling alternative, leveraging high-resolution images, 3D models, and interactive simulations to replicate the dissection experience.

What is Virtual Fetal Pig Dissection?

Virtual fetal pig dissection involves using digital software?often web-based or downloadable applications?that allows users to explore fetal pig anatomy in a simulated environment. These platforms typically include detailed 3D models, labeled diagrams, quizzes, and guided procedures that simulate the step-by-step process of dissecting a fetal pig.

Educational Goals of Virtual Dissection

- To understand the structure and function of mammalian organ systems
- To develop skills in identifying anatomical features
- To compare mammalian anatomy with other species
- To promote ethical practices by reducing reliance on real specimens

The Core Components of Virtual Fetal Pig Dissection

Virtual dissection platforms typically encompass several core features designed to mimic the physical dissection experience while enhancing interactivity and accessibility.

1. Detailed 3D Anatomical Models

High-resolution, manipulable 3D models of fetal pigs allow students to rotate, zoom, and section virtual specimens to observe internal and external features from multiple perspectives. These models often include layered views?skin, muscles, organs, and skeletal structures?enabling comprehensive exploration.

2. Interactive Labeling and Quizzes

To reinforce learning, many platforms incorporate labeling exercises where students identify structures based on prompts. Quizzes test knowledge on organ location, function, and relationships, providing immediate feedback.

3. Guided Dissection Procedures

Step-by-step instructions simulate the dissection process, guiding students through incisions, organ

removal, and examination. Some programs offer audio or video cues to enhance engagement.

4. Comparison and Contrast Tools

Features that allow comparison of fetal pig anatomy with other species or developmental stages deepen understanding of evolutionary and developmental biology.

Common Virtual Fetal Pig Dissection Answers and How They Support Learning

A significant aspect of virtual dissection is the acquisition of correct identification and understanding of anatomical structures?the "answers" that students seek during their exploration. While the platform itself provides guidance, mastery depends on students learning to correctly identify structures and understand their functions.

Typical Structures Covered in Virtual Dissection and Their Key Features

Below is a detailed list of major anatomical structures students are expected to identify and understand during virtual fetal pig dissection:

External Features:

- Snout
- Pinnae (ears)
- Limbs (forelimbs and hindlimbs)
- Claws
- Tail

External Features for Identification and Labeling:

- Eyes
- Nostrils
- Umbilical cord (in fetal stage)
- Vent (anus)
- Genital papilla (females) / Urogenital opening (males)

Internal Structures and Organ Systems:

- Digestive System

- Esophagus
- Stomach (cardiac, pyloric regions)
- Small intestine (duodenum, jejunum, ileum)
- Large intestine (cecum, colon)
- Liver
- Pancreas
- Gall bladder
- Rectum

- Respiratory System

- Trachea
- Lungs (left and right lobes)

- Circulatory System

- Heart (atrium, ventricle, major vessels)
- Aorta
- Vena cava
- Pulmonary arteries and veins

- Excretory System

- Kidneys
- Ureters
- Bladder

- Reproductive System

- Ovaries, fallopian tubes (females)

- Testes, epididymis (males)

- Nervous System

- Brain (cerebrum, cerebellum)
- Spinal cord

Key Learning Answers Provided by Virtual Platforms:

- Correct identification of each organ and structure
- Understanding the relative location and orientation of organs
- Recognizing developmental differences in fetal pig anatomy
- Differentiating between homologous structures in other mammals

Educational Benefits and Limitations of Virtual Dissection

While virtual dissection offers numerous advantages, it also presents certain limitations. Recognizing both is essential for effective integration into curricula.

Advantages

- Accessibility: Students can access virtual dissection tools from anywhere, at any time.
- Ethical Considerations: Reduces reliance on animal specimens, addressing ethical concerns.
- Cost-Effective: Eliminates costs associated with purchasing and maintaining physical specimens and dissection tools.
- Safety: Eliminates risks associated with chemicals and sharp instruments.
- Repeated Practice: Allows multiple dissection attempts without resource depletion.
- Customization: Platforms can highlight specific structures or simulate pathological conditions.

Limitations

- Lack of Tactile Feedback: Students miss the tactile experience of real tissue and instrument handling.
- Limited Sensory Experience: No smell, texture, or real-time variability.
- Potential for Reduced Engagement: Some students may find digital dissection less motivating than hands-on activities.

- Dependence on Software Quality: Effectiveness hinges on platform accuracy and usability.
- Learning Transfer: Virtual dissection may not fully replicate the understanding gained through physical dissection.

Strategies for Maximizing Learning from Virtual Fetal Pig Dissection

To derive the most educational value, students and educators should adopt best practices when using virtual dissection tools:

For Students:

- Engage actively with labeling exercises and quizzes.
- Use 3D manipulation features to explore structures from multiple angles.
- Take notes or create diagrams for reinforcement.
- Compare virtual dissection findings with textbook diagrams and physical specimens when available.
- Practice identifying structures repeatedly to improve recognition and retention.

For Educators:

- Integrate virtual dissection with traditional teaching methods to provide a blended learning experience.
- Develop assessments that test both identification skills and conceptual understanding.
- Encourage students to explain structures verbally or in writing to reinforce comprehension.
- Use virtual dissection as a preparatory tool before physical dissection or as a substitute when resources are limited.

Future Directions and Innovations in Virtual Fetal Pig Dissection

As technology evolves, virtual dissection platforms are likely to become more sophisticated, incorporating features such as:

- Augmented Reality (AR) and Virtual Reality (VR): Immersive environments allowing students to "step inside" the anatomy.
- Artificial Intelligence (AI): Adaptive learning systems that customize guidance based on student progress.
- Haptic Feedback Devices: Providing tactile sensations to simulate tissue resistance and texture.
- Enhanced Interactivity: Simulated pathological conditions, surgical procedures, or

developmental stages.

These innovations promise to bridge the gap between virtual and physical dissection, enriching the educational experience.

Conclusion: The Role of Virtual Fetal Pig Dissection Answers in Modern Education

The answers provided by virtual fetal pig dissection platforms are integral to fostering a comprehensive understanding of mammalian anatomy. They serve as valuable educational tools that complement traditional methods, offering accessible, ethical, and engaging ways to explore complex biological systems. While they may not wholly replace the tactile and experiential learning gained from physical dissection, their integration into curricula enhances overall scientific literacy and prepares students for advanced study or careers in biological sciences.

Educators and students should leverage the strengths of virtual dissection, remain aware of its limitations, and strive for a balanced approach that maximizes learning outcomes. As technology continues to advance, the fidelity and effectiveness of virtual dissection tools will only improve, shaping the future of biological education for generations to come.

In summary, understanding the "virtual fetal pig dissection answers" involves not only identifying structures correctly but also grasping their functions and interrelationships within the organism. These digital resources serve as vital aids in modern biology education, fostering curiosity, comprehension, and ethical responsibility.

QuestionAnswer What are the main benefits of virtual fetal pig dissection compared to traditional dissection? Virtual fetal pig dissection offers benefits such as enhanced safety, no need for physical specimens, easy access to detailed 3D models, and the ability to repeat procedures multiple times for better understanding without resource limitations. How accurate are virtual fetal pig dissection simulations in teaching anatomy? Modern virtual simulations are highly accurate, often incorporating detailed 3D models based on real anatomical data, which helps students learn anatomy with a high level of realism and precision. What are some common features included in virtual fetal pig dissection tools? Common features include interactive 3D models, layer-by-layer dissection, labeling of organs and systems, quizzes, and the ability to rotate and zoom for detailed examination. Can virtual fetal pig dissection help prepare students for real dissection labs? Yes, virtual dissection helps students familiarize themselves with anatomy and dissection techniques, which can improve confidence and understanding before participating in actual dissection labs. Are virtual fetal pig dissection resources suitable for all education levels? Yes, virtual dissection resources are adaptable for various education levels, from middle school to college, with adjustable complexity and guided instructions to suit learners' needs. What are some popular virtual fetal pig dissection platforms available online? Popular platforms include BioDigital Human, FrogDissection.com, and

the University of Colorado's Virtual Fetal Pig Dissection, which offer interactive and detailed dissection experiences. How do virtual fetal pig dissection answers enhance student learning? They provide immediate feedback, detailed explanations, and the ability to explore anatomy from multiple perspectives, reinforcing understanding and retention of key concepts. Are virtual fetal pig dissection tools cost-effective for schools? Yes, virtual dissection tools often reduce costs associated with purchasing specimens, dissection tools, and safety equipment, making them a cost-effective alternative or supplement to traditional dissection.

Related keywords: virtual fetal pig dissection, fetal pig anatomy, fetal pig dissection guide, fetal pig dissection answers, virtual dissection lab, fetal pig dissection worksheet, fetal pig dissection quiz, fetal pig dissection anatomy, virtual dissection activities, fetal pig dissection resources

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