

anatomy physiology lab exercise 10 axial skeleton PDF

Anatomy Physiology Lab Exercise 10 Axial Skeleton

Understanding the axial skeleton is fundamental to comprehending the human body's structural framework. In Anatomy Physiology Lab Exercise 10, students explore the intricate features of the axial skeleton, which provides support and protection for vital organs, serves as an attachment point for muscles, and maintains the body's upright posture. This exercise offers a detailed examination of skull bones, the vertebral column, and the thoracic cage, integrating both theoretical knowledge and practical identification skills.

Overview of the Axial Skeleton

The axial skeleton forms the central axis of the human skeleton, comprising approximately 80 bones. Its primary components include:

- Skull: Protects the brain and sensory organs.
- Vertebral Column: Supports the head and trunk, encasing the spinal cord.
- Thoracic Cage: Protects the heart and lungs, aiding in respiration.

Together, these structures provide a sturdy framework that supports the body's weight, facilitates movement, and safeguards vital organs.

Objectives of Lab Exercise 10

- Identify and locate bones of the skull, vertebral column, and thoracic cage.
- Understand the anatomical features and landmarks of each component.
- Differentiate between various bone types and their functions.
- Develop skills in bone identification and nomenclature.

Components of the Axial Skeleton

1. The Skull

The skull is divided into two main parts:

- Cranial Bones: Enclose and protect the brain.
- Facial Bones: Form the structure of the face.

Key cranial bones include:

- Frontal bone
- Parietal bones (paired)
- Occipital bone
- Temporal bones (paired)
- Sphenoid bone
- Ethmoid bone

Facial bones include:

- Nasal bones
- Maxillae
- Zygomatic bones
- Palatine bones
- Lacrimal bones
- Inferior nasal conchae
- Vomer
- Mandible

Practical tips for lab:

- Use the skull to locate sutures (coronal, sagittal, lambdoid, squamous).
- Identify foramina such as the foramen magnum and optic canals.

2. The Vertebral Column

The vertebral column consists of 33 vertebrae, classified into regions:

- Cervical (7 vertebrae): Support the head and allow neck movement.
- Thoracic (12 vertebrae): Attach to the ribs.
- Lumbar (5 vertebrae): Bear much of the body's weight.
- Sacral (5 fused vertebrae): Form the posterior part of the pelvis.
- Coccygeal (4 fused vertebrae): Tailbone.

Features to examine:

- Vertebral body
- Spinous process
- Transverse processes
- Vertebral foramen
- Articular facets

Lab activity:

- Count and identify vertebrae in each region.
- Recognize key features such as the cervical vertebrae's transverse foramina or lumbar vertebrae's large bodies.

3. The Thoracic Cage

The thoracic cage consists of:

- Ribs (12 pairs):
- True ribs (1?7)
- False ribs (8?12)
- Floating ribs (11?12)
- Sternum:
- Manubrium
- Body
- Xiphoid process

Function:

- Protects thoracic organs (heart and lungs).
- Supports shoulder girdles.
- Aids in respiration.

Lab focus:

- Count the ribs.

- Identify the sternum and its parts.
- Examine rib attachments to the vertebrae.

Practical Identification and Nomenclature

Students will be required to:

- Use bone identification keys.
- Match bones with their anatomical landmarks.
- Understand the significance of features such as the occipital condyles, mandibular condyle, intervertebral discs, and costal cartilages.

Tips for effective identification:

- Familiarize with bone surface markings.
- Note the differences between similar bones.
- Use models or diagrams for comparison.

Clinical Correlations and Significance

Understanding the axial skeleton has significant clinical importance:

- Fractures: Skull fractures, vertebral dislocations, rib fractures.
- Pathologies: Scoliosis, kyphosis, lordosis.
- Surgical procedures: Cranial surgeries, spinal surgeries, rib resections.
- Medical imaging: X-ray interpretation of skull, spine, and chest.

Recognizing normal anatomy aids in diagnosing injuries and diseases related to the axial skeleton.

Summary of Key Terms and Features

- Sutures: Immovable joints between skull bones.
- Foramina: Openings that allow passage of nerves and blood vessels.
- Vertebral arch: Part of the vertebra surrounding the spinal cord.
- Costal cartilages: Hyaline cartilage connecting ribs to the sternum.
- Intervertebral discs: Cartilaginous pads between vertebral bodies.

Conclusion

Anatomy Physiology Lab Exercise 10 offers a comprehensive overview of the axial skeleton's anatomy, emphasizing identification, structure, and functional relevance. Mastery of this material is essential for understanding human anatomy, diagnosing skeletal issues, and appreciating the body's complex architecture. Through hands-on examination and detailed study of bones, students develop critical anatomical skills that serve as a foundation for further learning in medicine, physical therapy, and related health sciences.

Additional Resources

- Human skeletal system diagrams
- 3D bone models
- Anatomy atlases
- Interactive quizzes for bone identification

By thoroughly engaging with this lab exercise, students enhance their anatomical knowledge, develop practical skills, and appreciate the vital role of the axial skeleton in human health and function.

Anatomy Physiology Lab Exercise 10: Axial Skeleton - An Expert Review

The axial skeleton forms the central framework of the human body, providing support, protection, and facilitating vital functions such as respiration and movement. As a cornerstone of anatomy and physiology education, understanding the axial skeleton through lab exercises offers students a comprehensive insight into human skeletal anatomy. In this detailed review, we will explore the structure, function, and key features of the axial skeleton, emphasizing the educational value of Lab Exercise 10, aimed at enhancing both theoretical knowledge and practical skills.

Introduction to the Axial Skeleton

The axial skeleton constitutes approximately 80 bones that form the long axis of the human body. Its primary roles include supporting the head, neck, and trunk, protecting vital organs such as the brain, spinal cord, and thoracic organs, and serving as attachment points for muscles involved in respiration, posture, and movement.

The main components of the axial skeleton are:

- Skull (Cranium and Facial bones)

- Auditory Ossicles
- Hyoid Bone
- Vertebral Column
- Thoracic Cage (Ribs and Sternum)

Understanding these components at the skeletal level is essential for grasping human anatomy's functional complexity.

Purpose and Educational Objectives of Lab Exercise 10

Lab Exercise 10 is designed to provide students with hands-on experience in identifying, examining, and understanding the structures of the axial skeleton. It emphasizes:

- Recognizing individual bones and their features
- Understanding bone articulations and joint types
- Learning the anatomical terminology related to the skeleton
- Developing skills in anatomical dissection, palpation, and visualization
- Connecting skeletal features to physiological functions

This exercise aims to bridge theoretical knowledge with practical application, fostering a more profound understanding of human anatomy.

The Skull: Cranium and Facial Bones

Overview of Skull Anatomy

The skull is divided into two main parts:

- Cranium: Encases the brain, composed of 8 bones.
- Facial Skeleton: Supports facial structures, comprising 14 bones.

The skull's complex architecture provides protection for the brain and sensory organs while serving as the attachment point for muscles involved in facial expressions, mastication, and speech.

Major Bones of the Skull

Bone Name	Number of Bones	Key Features	Functions
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| Frontal Bone | 1 | Forehead, supraorbital ridges | Forms the forehead, articulates with parietal bones |

| Parietal Bones | 2 | Superior and lateral skull | Protects parietal lobes, forms sides of the skull |

| Temporal Bones | 2 | Inferior sides, temples | Protects temporal lobes, houses auditory structures |

| Occipital Bone | 1 | Back and base of skull | Protects occipital lobes, contains foramen magnum |

| Sphenoid Bone | 1 | Butterfly-shaped, base of skull | Connects cranial bones, houses pituitary gland |

| Ethmoid Bone | 1 | Nasal cavity, orbital wall | Supports nasal cavity, olfactory system |

Facial Bones include nasal bones, maxillae, zygomatic bones, palatine bones, lacrimal bones, inferior nasal conchae, vomer, and mandible.

Key Features and Landmarks on the Skull

- Foramen Magnum: The large opening in the occipital bone for the spinal cord.
- Supraorbital Foramen: Notch or hole above the orbit for nerve and blood vessels.
- Zygomatic Arch: Cheekbone structure formed by zygomatic and temporal bones.
- Nasal Conchae: Scroll-like bones increasing surface area within the nasal cavity.
- Mandibular Condyle: Articulates with the temporal bone to form the temporomandibular joint.

Practical Tip: When examining skull bones, familiarize yourself with these landmarks to identify bones accurately and understand their roles in articulation and movement.

The Vertebral Column

Structure and Function

The vertebral column, or spine, consists of 33 vertebrae segmented into five regions:

- Cervical (7 vertebrae): Support the head and allow its movement.
- Thoracic (12 vertebrae): Articulate with ribs, forming the posterior thoracic cage.
- Lumbar (5 vertebrae): Bear much of the body's weight.
- Sacrum (5 fused vertebrae): Forms the posterior pelvis.
- Coccyx (4 fused vertebrae): Tailbone, vestigial structure.

The spine's primary functions include:

- Protecting the spinal cord
- Providing structural support and posture
- Allowing flexible movement
- Serving as an attachment site for muscles and ligaments

Vertebral Anatomy

Each vertebra features:

- Body (Centrum): Supports weight
- Vertebral Arch: Encloses the vertebral foramen
- Processes: Serve as attachment points (spinous, transverse, superior and inferior articular)
- Intervertebral Discs: Cartilage pads between bodies for cushioning and flexibility

Special features include:

- Cervical Vertebrae: Have transverse foramina for vertebral arteries, and a bifid spinous process.
- Thoracic Vertebrae: Have facets for rib articulation.
- Lumbar Vertebrae: Large bodies, horizontal spinous processes.

Key Landmarks for Identification

- Atlas (C1): Supports the skull, no body or spinous process.
- Axis (C2): Has the odontoid process (dens) for rotation.
- Sacrum and Coccyx: Fused bones forming a solid base.

Educational Focus: Recognizing the unique features of each vertebral region enhances understanding of their functional adaptations.

The Thoracic Cage (Ribs and Sternum)

Overview and Functionality

The thoracic cage protects vital organs like the heart and lungs, supports the shoulder girdle, and plays a crucial role in respiration.

It comprises:

- 12 Pairs of Ribs
- Sternum (Breastbone)

Ribs: Types and Features

Type	Number	Description	Articulations
True Ribs	1-7	Attach directly to sternum via costal cartilage	Direct articulation
False Ribs	8-10	Attach indirectly via cartilage or not at all	Indirect or no attachment
Floating Ribs	11-12	No anterior attachment	No anterior articulation

Each rib has:

- Head: Articulates with vertebral bodies
- Neck
- Tubercle: Articulates with transverse process
- Shaft: Main long part

Sternum: Structure and Landmarks

The sternum consists of three parts:

- Manubrium: Upper segment, articulates with clavicles and first ribs
- Body: Main central part, articulates with ribs 2-7
- Xiphoid Process: The small inferior tip, important in CPR

Practical Applications and Skills Development in Lab Exercise 10

This lab exercise emphasizes developing:

- Visual recognition skills: Distinguishing bones and landmarks

- Palpation techniques: Feeling for features like spinous processes or sutures
- Terminology proficiency: Using correct anatomical language
- Articulation understanding: Recognizing how bones connect and move

Students often engage in activities such as:

- Bone identification from models or specimens
- Labeling diagrams accurately
- Comparing individual variations
- Dissecting to observe internal features

Conclusion: The Significance of Mastering the Axial Skeleton

Understanding the axial skeleton is fundamental for comprehending human biology, clinical applications, and surgical procedures. Lab Exercise 10 offers an invaluable opportunity to move beyond textbook diagrams into tactile, three-dimensional understanding. By mastering the bones, landmarks, and articulations of the axial skeleton, students lay a solid foundation for advanced studies in medicine, physical therapy, anthropology, and related fields.

This comprehensive exploration of the axial skeleton underscores its complexity and vital importance. Whether you're a student seeking to excel in anatomy or a professional refining your knowledge, engaging deeply with the skeletal structures through practical exercises is essential for a nuanced appreciation of human anatomy.

In essence, Lab Exercise 10 on the axial skeleton serves as a pivotal educational tool, combining detailed anatomical study with hands-on learning to foster a thorough and practical understanding of the human body's central framework.

Question What are the main components of the axial skeleton covered in Lab Exercise 10? The main components include the skull, vertebral column, and thoracic cage, which comprise the bones of the head, spine, and rib cage. How many bones make up the adult axial skeleton? The adult axial skeleton consists of 80 bones, including 22 skull bones, 26 vertebrae, and 32 ribs with the sternum. What is the significance of the vertebral foramen in the vertebrae? The vertebral foramen is the opening through which the spinal cord passes, providing protection and passage for neural structures. Which bones are part of the axial skeleton's thoracic cage? The thoracic cage includes the sternum and the 24 ribs (12 pairs), which protect vital thoracic organs like the heart and lungs. What are the distinguishing features of cervical vertebrae in the axial skeleton? Cervical vertebrae are characterized by their small size, presence of transverse foramina, and a bifid spinous process in some species, facilitating neck mobility. How does the structure of the skull contribute to its functions? The skull's structure provides protection for the brain, supports sensory organs, and

serves as an attachment point for muscles involved in mastication and facial expression. What is the role of the sacrum and coccyx in the axial skeleton? The sacrum and coccyx support the pelvis, transmit weight to the lower limbs, and provide attachment points for muscles and ligaments of the pelvis and lower back.

Related keywords: axial skeleton, skull bones, vertebral column, rib cage, sternum, cervical vertebrae, thoracic vertebrae, lumbar vertebrae, sacrum, coccyx

axial skeleton coloring pages

Axial Skeleton Coloring Pages: A Fun and Educational Way to Learn Human Anatomy

Are you looking for an engaging activity that combines creativity with education? **Axial skeleton coloring pages** offer a perfect solution for children, students, teachers, and parents alike. These coloring pages provide a hands-on approach to understanding the complex structure of the human body's central framework. Whether you're a teacher seeking a classroom activity, a parent aiming to introduce anatomy to your child, or a student wanting to reinforce learning, axial skeleton coloring pages are an excellent resource. Let's explore what makes these pages so valuable and how they can enhance learning through fun art exercises.

What Are Axial Skeleton Coloring Pages?

Axial skeleton coloring pages depict the core bones that form the central axis of the human body. These include the skull, vertebral column, and rib cage. Designed with detailed illustrations, these pages help users visualize and identify each bone, promoting both artistic expression and anatomical understanding.

Components of the Axial Skeleton

- **Skull:** Protects the brain and forms the structure of the face.
- **Vertebral Column:** Supports the body and protects the spinal cord.
- **Rib Cage:** Encloses the thoracic cavity, protecting vital organs like the heart and lungs.

Benefits of Using Axial Skeleton Coloring Pages

Coloring pages are more than just a fun activity—they're an effective educational tool. Here are some reasons why axial skeleton coloring pages should be part of your learning resources.

Enhance Memory Retention

Coloring helps reinforce memory by engaging multiple senses. When students color and label bones, they are more likely to remember their names, locations, and functions.

Develop Fine Motor Skills

Coloring requires precision, helping children improve hand-eye coordination and fine motor skills, which are fundamental for writing and other tasks.

Foster Interest in Human Anatomy

Visually appealing coloring pages can spark curiosity about the human body, encouraging further exploration and study.

Support Differentiated Learning

These pages cater to diverse learning styles—visual, kinesthetic, and tactile—making anatomy accessible to all students.

Types of Axial Skeleton Coloring Pages Available

There is a wide variety of coloring pages designed to suit different educational needs and age groups.

Basic Bone Structure Pages

These simplified illustrations highlight major bones, perfect for beginners or younger children. They often include labels for easy identification.

Detailed Anatomical Diagrams

More complex pages feature detailed views of bones, sutures, and joints, suitable for advanced students or those studying human biology.

Themed and Creative Coloring Pages

Some pages incorporate fun themes such as skeletons dressed as pirates or superheroes, making learning more engaging.

How to Use Axial Skeleton Coloring Pages Effectively

Maximize the educational benefits of coloring pages with these tips.

Integrate with Classroom Lessons

Use coloring pages as supplementary activities after teaching about the skeletal system. Encourage students to label bones as they color.

Combine with Interactive Activities

Pair coloring with quizzes, puzzles, or model-building exercises for a comprehensive understanding.

Encourage Artistic Expression

Allow students to choose colors and add creative details, fostering personal connection with the material.

Use Digital and Printable Resources

Access downloadable PDFs or online interactive coloring tools to accommodate different learning environments.

Where to Find High-Quality Axial Skeleton Coloring Pages

A variety of resources are available online, offering free and paid options.

Educational Websites and Resources

Websites like Teachers Pay Teachers, Education.com, and Kids Discover provide a plethora of printable coloring pages tailored for different age groups.

Printable Coloring Book Collections

Many publishers offer comprehensive coloring books focusing on human anatomy, including the axial skeleton, for purchase or free download.

Customizable and Interactive Coloring Pages

Some platforms offer digital coloring pages that can be customized or interacted with on tablets and computers, providing a modern twist on traditional activities.

Tips for Creating Your Own Axial Skeleton Coloring Pages

If you want a personalized touch, consider creating your own coloring pages.

Use Drawing Software

Programs like Adobe Illustrator or free tools like Inkscape allow you to design custom skeleton diagrams.

Trace from Educational Images

Use medical illustrations or textbooks as references to trace and simplify bones for your own coloring sheets.

Incorporate Labels and Annotations

Add labels for bones and brief descriptions to enhance learning.

Conclusion

Incorporating **axial skeleton coloring pages** into educational activities is a fantastic way to make learning about human anatomy engaging, memorable, and fun. These coloring pages serve as versatile tools that support visual learning, fine motor development, and curiosity about the human body. Whether used in classrooms, homes, or clinics, they provide a hands-on approach to understanding the vital bones that protect and support our bodies. With a wide array of resources available online and the possibility of creating custom pages, there's no shortage of options to integrate coloring activities into your anatomy education. So grab some crayons, print out a skeleton page, and start exploring the fascinating world of the axial skeleton today!

Axial Skeleton Coloring Pages: A Creative Gateway to Human Anatomy

axial skeleton coloring pages have become an innovative and engaging tool for educators, students, and anatomy enthusiasts alike. These printable resources blend the educational richness of human skeletal structure with the creative appeal of coloring activities, making the learning process both fun and informative. Whether used in classroom settings, homeschooling environments, or individual study, axial skeleton coloring pages serve as a bridge that simplifies complex anatomical concepts and fosters a deeper understanding of the human body's central framework.

Understanding the Axial Skeleton: The Foundation of Human Anatomy

Before delving into the significance of coloring pages, it is essential to grasp what the axial skeleton entails. Comprising approximately 80 bones, the axial skeleton forms the central axis of the human body, providing support, protection, and facilitating movement.

Components of the Axial Skeleton

The axial skeleton includes:

- Skull: Protects the brain and forms the structure of the face.
- Vertebral Column (Spine): Supports the body's weight and protects the spinal cord.
- Thoracic Cage (Rib Cage): Protects vital organs such as the heart and lungs.
- Auditory Ossicles: The tiny bones in the middle ear assisting in hearing.

Understanding these components is fundamental for students and learners, and coloring pages serve as visual aids to reinforce this knowledge.

The Educational Value of Axial Skeleton Coloring Pages

Coloring pages are more than just artistic activities; they are powerful pedagogical tools that enhance comprehension and retention. Here are several reasons why axial skeleton coloring pages are valuable in educational contexts:

- Visual Learning Enhancement

Visual aids help learners better understand spatial relationships among bones and structures. Coloring the skull, vertebrae, or ribs allows students to see the relative positions and connections more vividly than in textual descriptions alone.

- Memory Reinforcement

Engaging in hands-on activities like coloring stimulates the brain and improves memory retention. When students color specific bones or regions, they actively process the information, making it easier to recall later.

- Interactive Engagement

Coloring pages promote active participation. Unlike passive reading, coloring involves motor skills and decision-making, leading to a more immersive learning experience.

- Differentiated Learning Styles

For kinesthetic learners and those who learn best through visual means, coloring pages provide an accessible way to engage with complex concepts.

- Assessment and Reinforcement

Teachers can use coloring activities as informal assessments, observing students' understanding of the skeletal structure based on how they color or label parts.

Types of Axial Skeleton Coloring Pages

The diversity of coloring pages caters to different educational levels, interests, and learning objectives. Here are common types available:

- Basic Skeleton Outlines

Simplified diagrams focusing on major bones, suitable for young children or beginners. These pages emphasize clarity over detail, highlighting bones like the skull, ribs, and vertebrae.

- Detailed Anatomical Drawings

More complex illustrations featuring detailed bone structures, sutures, and landmarks. Ideal for high school students or anatomy majors.

- Labeled Coloring Pages

Pages with labels on bones and features to promote active learning. These often include spaces for students to write or memorize names.

- Themed or Creative Variations

Some coloring pages incorporate themes such as skeletons with accessories, artistic designs, or cross-sections to illustrate internal structures like the spinal cord or nerve pathways.

Benefits of Using Axial Skeleton Coloring Pages in Education

Incorporating coloring pages into anatomy lessons offers numerous advantages:

- Enhanced Engagement: Keeps students interested and motivated.
- Facilitates Collaborative Learning: Group coloring activities encourage discussion and teamwork.
- Supports Diverse Educational Needs: Accommodates different learning paces and styles.
- Prepares for Practical Applications: Helps students visualize real human anatomy for medical, physiotherapy, or fitness careers.

How to Effectively Use Axial Skeleton Coloring Pages

To maximize the benefits, educators and learners should consider the following strategies:

- Integrate with Theoretical Lessons

Introduce the topic through lectures or readings, then reinforce understanding with coloring activities. For example, after studying the vertebral column, students can color and label different vertebrae.

- Encourage Active Labeling

Provide space for students to write the names of bones, articulations, or landmarks as they color, reinforcing memorization.

- Use as Assessment Tools

Assign coloring pages as quizzes or review exercises to evaluate comprehension.

- Incorporate Technology

Utilize digital coloring pages for remote learning environments, allowing interactive annotation and label addition.

Sources and Accessibility of Axial Skeleton Coloring Pages

The internet offers a plethora of free and paid resources catering to various educational needs. Reputable sources include:

- Educational Websites: Many sites provide downloadable PDFs with high-quality coloring pages aligned with curriculum standards.
- Anatomy Apps: Interactive digital coloring tools with 3D models.
- Printable Resources: Teachers and parents can find printable coloring sheets from trusted educational publishers or open-source platforms.

When selecting coloring pages, consider the age group, level of detail, and whether labels are included to match the intended learning outcomes.

The Future of Anatomy Education and Coloring Pages

As educational methodologies evolve, integrating technology with traditional activities remains crucial. The future of axial skeleton coloring pages may involve:

- Augmented Reality (AR): Combining coloring activities with AR to visualize bones in 3D.
- Interactive Digital Platforms: Enhancing coloring pages with clickable labels and quizzes.
- Customized Content: Tailoring coloring pages to specific curricula or individual learning needs.

These innovations aim to deepen understanding, foster curiosity, and make anatomy education more engaging and accessible.

Conclusion

axial skeleton coloring pages are more than just artistic exercises; they are vital educational tools that demystify the complex architecture of the human body. By blending visual learning with hands-on activity, these resources support comprehension, retention, and enthusiasm for anatomy. As educators and learners continue to seek effective methods for mastering human biology, axial skeleton coloring pages stand out as versatile, cost-effective, and enjoyable solutions. Whether in a classroom, at home, or in digital formats, they open a creative pathway to understanding the backbone of human structure?one bone at a time.

Question What are axial skeleton coloring pages used for? Axial skeleton coloring pages are educational tools designed to help students and learners understand the structure of the skull, spine, and rib cage by providing interactive coloring activities. **Where can I find free axial skeleton coloring pages online?** Many educational websites, such as Crayola, Coloring Pages for Kids, and teachers' resource sites, offer free printable axial skeleton coloring pages suitable for students and teachers. **How can coloring axial skeleton pages enhance learning in anatomy?** Coloring axial skeleton pages helps reinforce memory and understanding of skeletal parts by engaging visual and kinesthetic learning styles, making complex anatomy more approachable. **Are there specific axial skeleton coloring pages for different age groups?** Yes, there are coloring pages tailored for various

age groups, from simple diagrams for young children to detailed illustrations for older students and medical learners. Can axial skeleton coloring pages be used in classroom activities? Absolutely, they are excellent for classroom activities, anatomy lessons, or as part of a health education curriculum to make learning about the human skeleton engaging and interactive. What are some tips for using axial skeleton coloring pages effectively? To maximize learning, incorporate labeling activities, discuss the functions of different bones while coloring, and encourage students to research and add facts about each part they color.

Related keywords: axial skeleton, skeleton coloring pages, human skeleton coloring, bone coloring sheets, anatomy coloring pages, printable skeleton pages, skull coloring sheets, vertebrate coloring pages, skeletal system coloring, printable anatomy diagrams

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