The Skin

Functions of the Skin

- Protective outer covering of the body
- Regulation of body temperature
- Regulation of body fluids
- Excretion
- Contains sensory endings for the sensations of touch, pressure, temperature, and pain

The Skin

- epidermis
- dermis
- fatty layer

The Skin

- hair shaft
- sebaceous gland
- hair follicle
- sweat gland

The Skin

- blood vessels
- nerve endings

The Skeletal System
Functions of the Skeletal System

- Framework and support for body organs
- Physical protection for delicate organs
- Framework against which muscles work to provide movement
- Storage of calcium
- Blood cell formation

The Pig Skeleton

The Axial Skeleton

The Skull

The Human Skeleton

appendicular skeleton

axial skeleton

The Axial Skeleton

The Vertebral Column

Cervical Vertebrae (7)
Thoracic Vertebrae (12)
Lumbar Vertebrae (5)
Sacrum
Coccyx

A Typical Vertebra

centrum
neural arch
neural canal
The Vertebral Column

- Vertebrae
- Intervertebral discs

Cervical Vertebrae
- Atlas (C1)
- Dens
- Axis (C2)

Thoracic Vertebrae

Lumbar Vertebrae

The Axial Skeleton

The Thoracic Cage
- Sternum
- True Ribs (7)
- False Ribs (3)
- Floating Ribs (2)

The Appendicular Skeleton

The Pectoral Girdle
- Clavicle
- Scapula
The Upper Limb
- humerus
- radius
- ulna
- carpals
- metacarpals
- phalanges

The Appendicular Skeleton
- The Pelvis
  - ilium
  - sacrum
  - pubis
  - ischium

The Lower Limb
- femur
- patella
- tibia
- fibula
- tarsals
- metatarsals
- phalanges

Ball-And-Socket Joint

Pivot Joint

Hinge Joint
Immovable Joints

- suture
- pubis symphysis

Slightly Movable Joint

- vertebrae
- intervertebral discs

Body Cavities

- cranial cavity
- vertebral canal
- thoracic cavity
- diaphragm
- abdominal cavity
- pelvic cavity

Body Cavities

- pleural cavity
- pericardial cavity
- diaphragm
- abdominal cavity
- pelvic cavity