1.03 Understand the functions and disorders of the skeletal system
1.03 Understand the functions and disorders of the skeletal system

What do you think?
1.03 Understand the functions and disorders of the skeletal system

**Essential Standards:**

- What are the functions of the skeletal system?
- What are some disorders of the skeletal system?
- How are skeletal disorders treated?
- How does the skeletal system relate to the body’s systems of support and movement?
What functions of the skeletal system are demonstrated in this picture?

(Know functions p. 84)

1.03 Understand the functions and disorders of the skeletal system
Discuss hemopoiesis.

- Heme = blood
- Poiesis = to make
- Makes erythocytes
- Found in skull, clavicles, vertebrae, sternum, ribs, pelvis, and spongy bone of epiphysis of long bones.
Functions of the Skeletal System

- Which minerals are stored in the skeletal system? (page 84)
- What is the relevance to your health?

1.03 Understand the functions and disorders of the skeletal system
Functions of the Skeletal System

- Demonstrate movement.
- (muscle contraction/levers)
- Discuss the movement in these pictures.

1.03 Understand the functions and disorders of the skeletal system
Functions of the Skeletal System

Types of movement

See pages 97-98

Discuss the movement in these pictures.

- Define:
  - Flexion Extension
  - Rotation Abduction
  - Adduction
Functions of the Skeletal System

- Which skeletal structures provide protection?
- Which organs do they protect?

1.03 Understand the functions and disorders of the skeletal system
How does the skeletal system provide support? (Hint: see page 84)
Disorders of the Skeletal System

1.03 Understand the functions and disorders of the skeletal system
Disorders of the Skeletal System

- Arthritis

- Define the term based on the meaning of its parts.
  
  arthr/o  itis

- Discuss current knowledge of arthritis.

1.03 Understand the functions and disorders of the skeletal system
Disorders of the Skeletal System

- Arthritis
  - Osteoarthritis
    - What is the cause?
    - How is it treated?

1.03 Understand the functions and disorders of the skeletal system
Disorders of the Skeletal System

- Arthritis
  - Rheumatoid arthritis
  - Discuss the characteristics of rheumatoid arthritis.
  - What is the relevance to health?

1.03 Understand the functions and disorders of the skeletal system
Arthritis

- Compare rheumatoid arthritis and osteoarthritis.

- What is the relevance to health?
Gout

- Discuss gout.

- What causes gout?

1.03 Understand the functions and disorders of the skeletal system
Gout

- Which joint is most often affected?
- What other joints might be affected?
- How is gout treated?

1.03 Understand the functions and disorders of the skeletal system
Disorders of the Skeletal System

- **Osteoporosis**
  - Discuss this condition.
  - Oste/o por/ous osis
  - What household object does osteoporosis remind you of?

1.03 Understand the functions and disorders of the skeletal system
Disorders of the Skeletal System

- Osteoporosis
  - Explain two reasons why this woman gets shorter as she ages.

1.03 Understand the functions and disorders of the skeletal system
Disorders of the Skeletal System

- Osteoporosis
  - How is osteoporosis treated?
Disorders of the Skeletal System

- Rickets
  - Discuss rickets.
  - What causes rickets?
  - Who is most often effected?

1.03 Understand the functions and disorders of the skeletal system
Disorders of the Skeletal System

- **Rickets**
  - How is rickets treated?
  - How does rickets impact a person’s healthy function?
  - Is this a health concern in the U.S.? Why/why not?

1.03 Understand the functions and disorders of the skeletal system
Disorders of the Skeletal System

- Abnormal spinal curvatures

Kyphosis, Lordosis, Scoliosis
Disorders of the Skeletal System

- Trauma
  - Dislocation
  - Fractures

1.03 Understand the functions and disorders of the skeletal system
Dislocation

- What are the characteristics of a dislocation?
- Compare dislocation to subluxation.

1.03 Understand the functions and disorders of the skeletal system
Skeletal System Trauma

- Trauma
  - Fractures
  - What is a fracture?

1.03 Understand the functions and disorders of the skeletal system
Skeletal System Trauma

- Trauma
  - How is a fracture treated?

1.03 Understand the functions and disorders of the skeletal system
Fractures

- Closed or simple
Skeletal System Trauma

- Fractures
  - Open or compound

1.03 Understand the functions and disorders of the skeletal system
1.03 Understand the functions and disorders of the skeletal system

- Fractures
  - Comminuted
Skeletal System Trauma

- Fractures
  - Greenstick

1.03 Understand the functions and disorders of the skeletal system
Fractures

fracture sites related to osteoporosis

Explain why fractures are common in these sites.

1.03 Understand the functions and disorders of the skeletal system
1.03 Understand the functions and disorders of the skeletal system

**Essential Standards:**

- What are the functions of the skeletal system?
- What are some disorders of the skeletal system?
- How are skeletal disorders treated?
- How does the skeletal system relate to the body’s systems of support and movement?
1.03 Understand the functions and disorders of the skeletal system

The End