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Crash Course BIOLOGY (2012 SERIES) 40 Episode Series Bundle

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Crash Course Biology (2012) #30: The Skeletal System

Name: _____ Date: _____

You can access the video here → <https://youtu.be/RW46rOKWa-g?si=6MAq-sYJg7ADRN7m>

1. Jellies and worms rely on _____ skeletons made of fluid-filled body cavities to change shape and move.
2. Insects have an _____ made of the nitrogenous carbohydrate chitin.
3. Many mollusks' shells are exoskeletons composed of _____.
4. Having an internal _____ lets animals grow larger and move with greater freedom than if they had an exoskeleton.
5. Adult humans have _____ bones in total.
6. Human teeth aren't bones; they're made of dentin and _____ the hardest material in the body.
7. Most new bone tissue begins as _____ produced by chondrocytes.
8. Bone-building cells called _____ carry out ossification.
9. The main mineral deposited in bone matrix is _____.
10. The hard, dense outer layer of a bone is the _____ (cortical) bone.
11. The porous interior that contains marrow is _____ (trabecular) bone.
12. The production of blood cells in marrow is called _____.
13. The main shaft of a long bone is the _____.
14. Long bones lengthen at the _____ during growth.
15. When blood calcium falls below homeostasis, the _____ glands stimulate osteoclast activity to release calcium.

Crash Course Biology (2012) #30: The Skeletal System - KEY

1. Jellies and worms rely on **hydrostatic** skeletons made of fluid-filled body cavities to change shape and move.
2. Insects have an **exoskeleton** made of the nitrogenous carbohydrate **chitin**.
3. Many mollusks' shells are exoskeletons composed of **calcium carbonate**.
4. Having an internal **endoskeleton** lets animals grow larger and move with greater freedom than if they had an exoskeleton.
5. Adult humans have **206** bones in total.
6. Human teeth aren't bones; they're made of dentin and **enamel**, the hardest material in the body.
7. Most new bone tissue begins as **cartilage** produced by chondrocytes.
8. Bone-building cells called **osteoblasts** carry out ossification.
9. The main mineral deposited in bone matrix is **calcium phosphate**.
10. The hard, dense outer layer of a bone is the **compact** (cortical) bone.
11. The porous interior that contains marrow is **spongy** (trabecular) bone.
12. The production of blood cells in marrow is called **hematopoiesis**.
13. The main shaft of a long bone is the **diaphysis**.
14. Long bones lengthen at the **epiphyseal** plate during growth.
15. When blood calcium falls below homeostasis, the **parathyroid** glands stimulate osteoclast activity to release calcium.

15 Questions

Answer Key Included

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★★★★★ **Extremely satisfied** "This bundle will be a great investment for extending learning and challenging my 7th grade classes!"

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★★★★★ **Extremely satisfied** "This is a great lifesaver for easy sub plans and quick reviews."

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