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Skeletal, Muscular and Integumentary System

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| **Across**  **3.** made up of keratin  **4.** Responsible for bone growth and uptake of minerals from the blood.  **8.** skeletal muscles are joined to bones by tough connective tissue called  **12.**  tough, fibrous membrane that covers and protects the outer surfaces of bone  **16.** each myofibril contains thick filaments of a protein called  **17.** each myofibril contains thin filaments of a protein called  **19.** voluntary and striated; attach to bones and control conscious movement  **21.** skeletal muscle cells are filled with tightly packed filament bundles called  **23.** fast twitch; not as many mitochondria  **24.** outer layer of the skin  **25.** a soft connective tissue that produces blood cells  **26.** found only in heart and is specialized to help pump blood throughout the body | **Down**  **1.** consists of the skull, vertebral column, and the rib cage  **2.** connective tissue found in many areas of the body  **5.** when one muscle in the pair contracts, the other muscle in the pair relaxes  **6.** dissolve minerals in bone matrix and release them back into the blood.  **7.** consists of the bones of the arms, legs, pelvis and shoulder area  **9.** makes up the dense outer layer of bone  **10.** slow twitch; contains many mitochondria  **11.** produced by cells at the base of structures called  **13.**  found inside bones and is lighter and less dense than compact bone  **14.** most serious type of skin cancer  **15.** beneath the epidermis  **18.**  found in hollow organs of the body such as stomach, intestines, and around blood vessels  **20.** abnormal growth of cells in skin  **22.** Regulate mineral homeostasis |