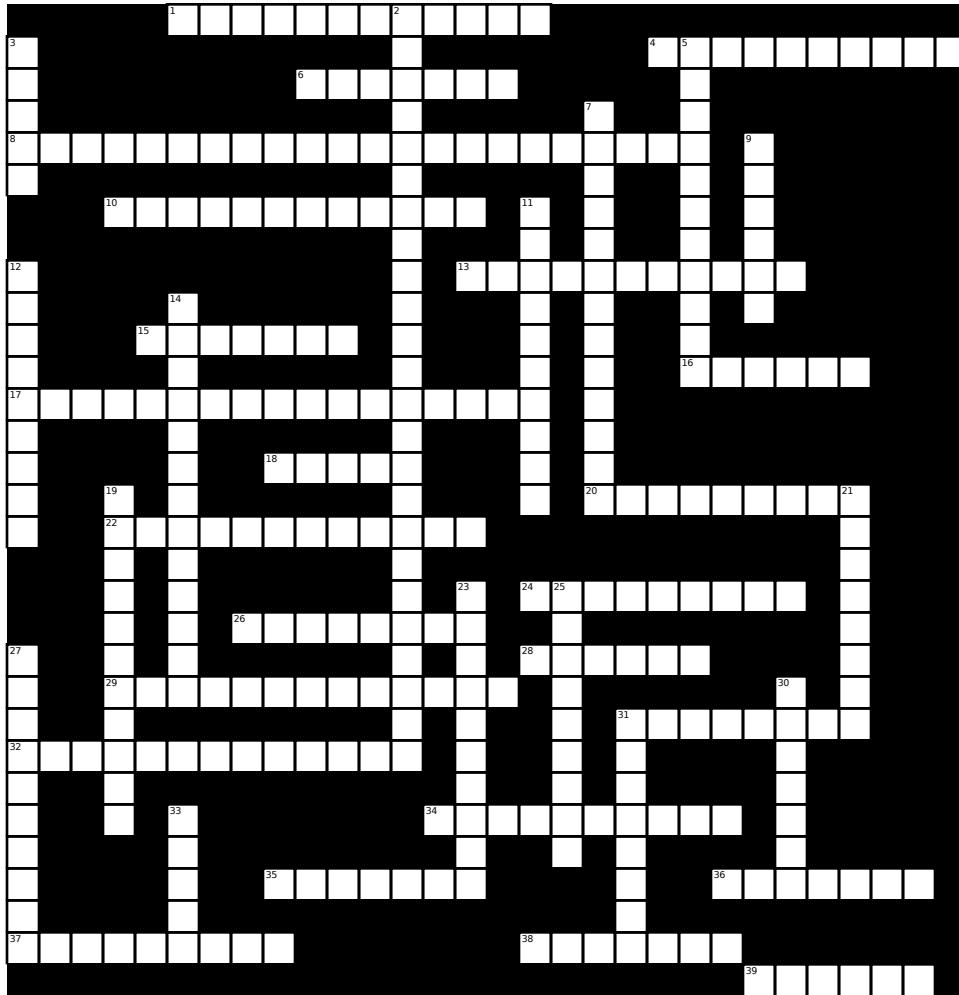


Musculoskeletal System

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Across

- 1 bone tissue becomes brittle, thin, and spongy. Bones break easily, and the spine sometimes begins to crumble and collapse.
- 4 inside many of our bones is where most of the blood cells flowing through our bodies are made.
- 6 _____ bone is the solid, hard outside part of the bone.
- 8 inflammation (pain and swelling) of the bone, cartilage, and/or tendon at the top of the shinbone, where the tendon from the kneecap attaches.
- 10 consist of columns of multiplying cartilage cells that grow in length, and then change into hard, mineralized bone.
- 13 make new bone and help repair damage
- 15 _____ muscle is found in the heart.
- 16 _____ muscle is also made of fibers, but this type of muscle looks smooth, not striated.
- 17 inherited group of diseases that affect the muscles, causing them to weaken and break down over time.
- 18 provide support for our bodies and help form our shape.
- 20 causes the spine to curve too much. The condition can be hereditary, so a person who has scoliosis often has family members who have it.
- 22 is when the cartilage is replaced by hard deposits of calcium phosphate and stretchy collagen, the two main components of bone.
- 24 a flexible, rubbery substance in our joints, supports bones and protects them where they rub against each other.
- 26 occurs when a bone breaks; it may crack, snap, or shatter.
- 28 muscle or tendon is overstretched.
- 29 bone infection that is often caused by Staphylococcus aureus bacteria, though other types of bacteria can cause it, too.
- 31 _____ joints move in many directions.
- 32 _____ joints move a little.
- 34 The tendon and tendon sheath become inflamed, which can be painful. Resting the muscles and taking anti-inflammatory medication can help to relieve this condition.
- 35 needed to make bones hard, which allows them to support your weight.
- 36 masses of tough, elastic tissue that pull our bones when we move.
- 37 The bone marrow contains special cells called _____
- 38 connected to bones by tough, cord-like tissues called _____
- 39 overstretching or a partial tear of the ligaments. Strains usually happen when a person takes part in a strenuous activity when the muscles haven't properly warmed up or the muscle is not used to the activity.

Down

- 2 group of injuries that happen when too much stress is placed on a part of the body, resulting in inflammation (pain and swelling), muscle strain, or tissue damage.
- 3 _____ joints allow a rotating or twisting motion, like that of the head moving from side to side
- 5 break down bone and help to sculpt and shape it.
- 7 carry oxygen to the body's tissues
- 9 occur where two bones meet. They make the skeleton flexible — without them, movement would be impossible.
- 11 which carry nutrients and waste products to and from blood vessels in the bone
- 12 Bones are fastened to other bones by long, fibrous straps called _____
- 14 _____ joints allow the greatest freedom of movement. The hips and shoulders have this type of joint, in which the round end of a long bone fits into the hollow of another bone.
- 19 When you decide to move, the _____ sends an electrical signal through the spinal cord and peripheral nerves to the muscles, causing them to contract.
- 21 _____ muscle is attached to bone, mostly in the legs, arms, abdomen, chest, neck, and face.
- 23 Holes and channels run bones, carrying blood vessels and nerves from the _____, the bone's membrane covering, to its inner parts.
- 25 inflammation of a joint, and people who have it experience swelling, warmth, pain, and often have trouble moving.
- 27 _____ bone is inside the compact bone.
- 30 _____ joints don't move.
- 31 Skeletal muscles are called _____ because they are made up of fibers that have horizontal stripes when viewed under a microscope.
- 33 _____ joints allow movement in one direction, as seen in the knees and elbows.