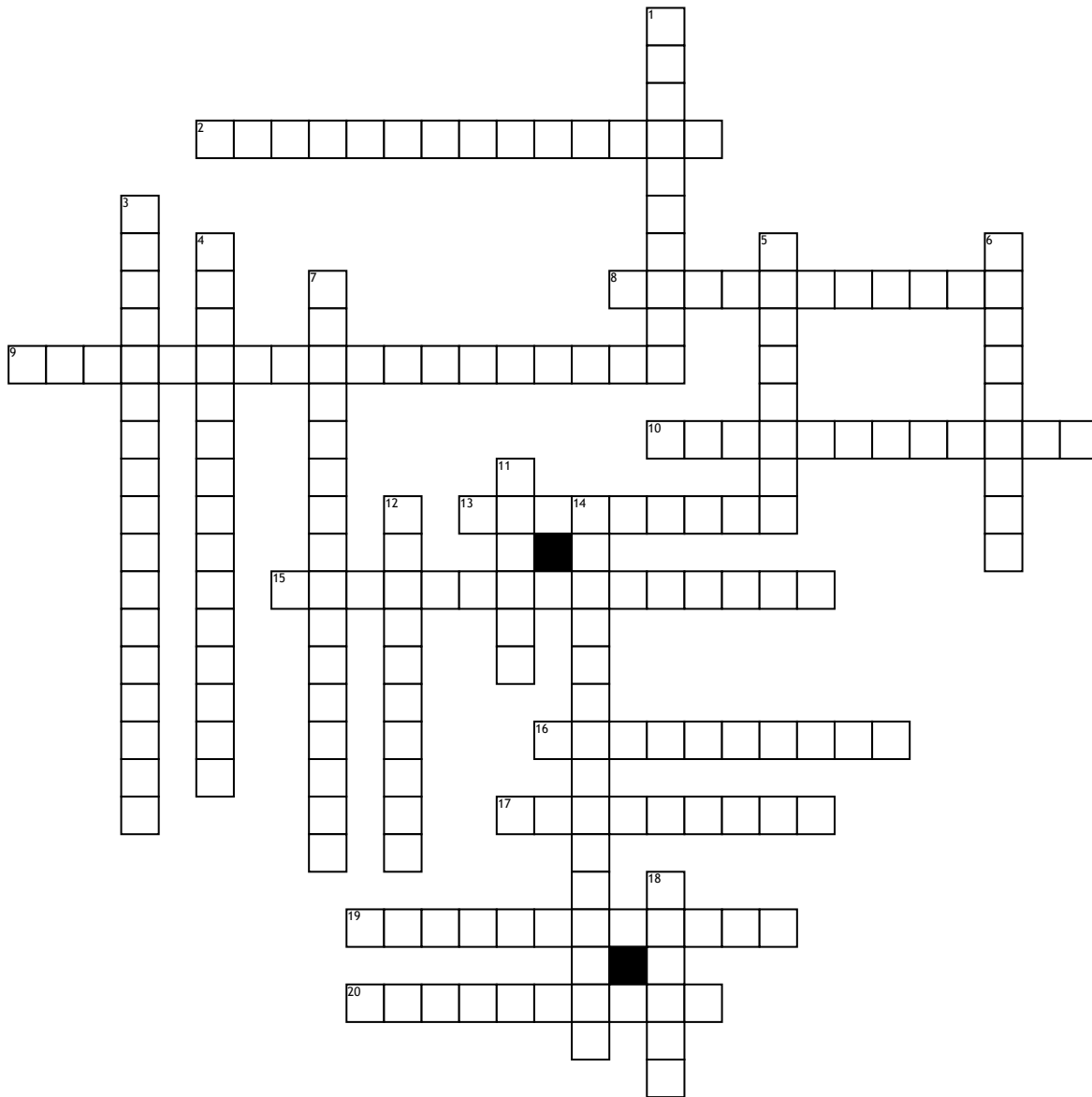


The Skeletal System



Across

2. a line of junction of the epiphysis and diaphysis of a long bone where growth in length occurs

8. the bony matrix is solidly filled with organic ground substance and inorganic salts-leaving only tiny spaces (lacunae) that contain the osteocytes

9. Hyaline cartilage covering bone ends at movable joints

10. fat; found at the ends of long bones

13. mature bone cell

15. the rounded part of the bone that is pointing away from the center of the body, is made up of spongy bone.

16. bone-forming cells

17. diffusion of solutes through a semipermeable membrane

19. canal in the center of each osteon that contains minute blood vessels and nerve fibers that serve osteocytes
20. double layered connective tissues that cover and nourish the bone

Down

1. internal layer of skeletal bone- also known as cancellous bone

3. Enlarged terminal part of the bone, near to the center of the body, made of spongy tissue

4. the central cavity of a long bone. Contains yellow or red bone marrow.

5. a layer of bone matrix in an osteon of compact bone

6. contain the developmental stages of red blood cells, white blood cells, and megakaryocytes.

7. canals that run at right angles to the long axis of the bone- connecting the vascular and nerve supplies of periosteum to the central canal and medullary cavity; also known as the volkmann's canal

11. a system of interconnecting canals in the microscopic structure of adult compact bone- also known as the Haversian system

12. large cells that reabsorb or break down bone matrix

14. plate of hyaline cartilage at the junction of diaphysis and epiphysis for growth

18. small cavity; lacunae in the bone of cartilage are occupied by cells