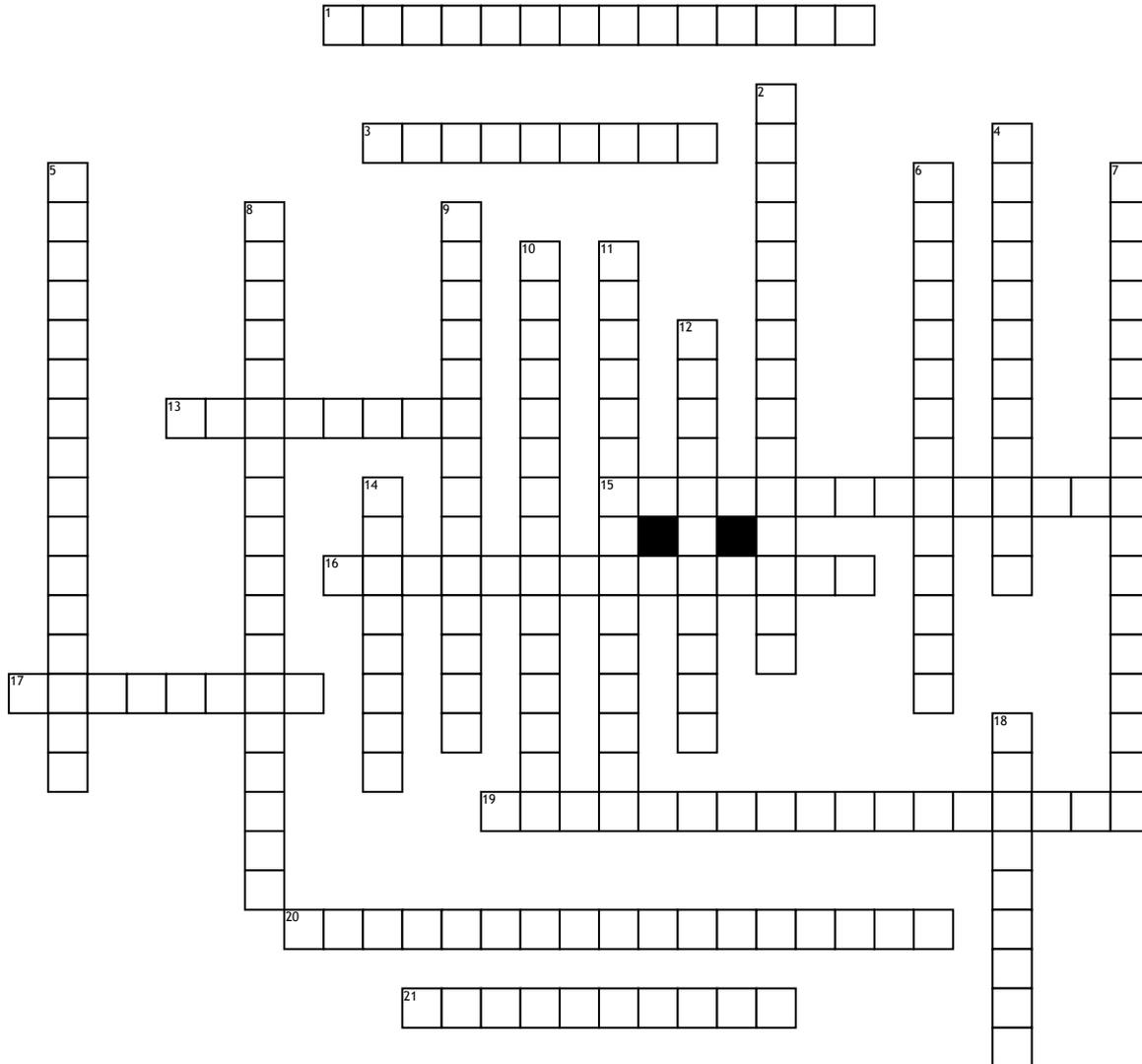


Properties and Types of Sensory Receptors



Across

1. An organ or cell specialized to detect chemicals, as in the carotid bodies and taste buds

3. Conscious perception of a stimulus

13. A cell or organ specialized to detect a stimulus, such as taste cell, or the eye

15. The area in which a sensory neuron detects stimuli

16. A sensory receptor of the muscles, tendons, and joint capsules that detects muscle contractions and joint movements

17. Refers to the type of stimulus or the sensation it produces

19. The ability of the brain to identify the site of stimulation

20. A variable change in membrane voltage produced by a stimulus acting on a receptor cell; generates an action potential if it reaches threshold

21. An organ of the body that responds to external stimuli by conveying impulses to the sensory nervous system

Down

2. Generate a burst of action potentials when first stimulated, then quickly adapt and sharply reduce or stop signaling even if the stimulus continues

4. The action of converting one form of energy into another

5. A sensory nerve ending or organ specialized to detect mechanical stimuli such as touch, pressure, stretch, or vibration

6. A type of receptor that adapts slowly and generate signals steadily

7. What happens if stimulus is prolonged, the firing of the neuron gets slower over time and we become less sensitive to the stimulus

8. Pathways followed by sensory signals to their ultimate destinations in the CNS

9. A sensory cell or sense organ that responds to light falling on it

10. Theory of sensory interpretation which explains how the brain separates different sensations based on the area of the body that the signal comes from

11. A neuron specialized to respond to heat or cold, found in the skin and mucous membranes, for example

12. A nerve ending specialized to detect tissue damage and produce a sensation of pain

14. How long a stimulus lasts

18. Refers to whether a light is loud or soft, a light is dim or bright, a pain is mild or excruciating