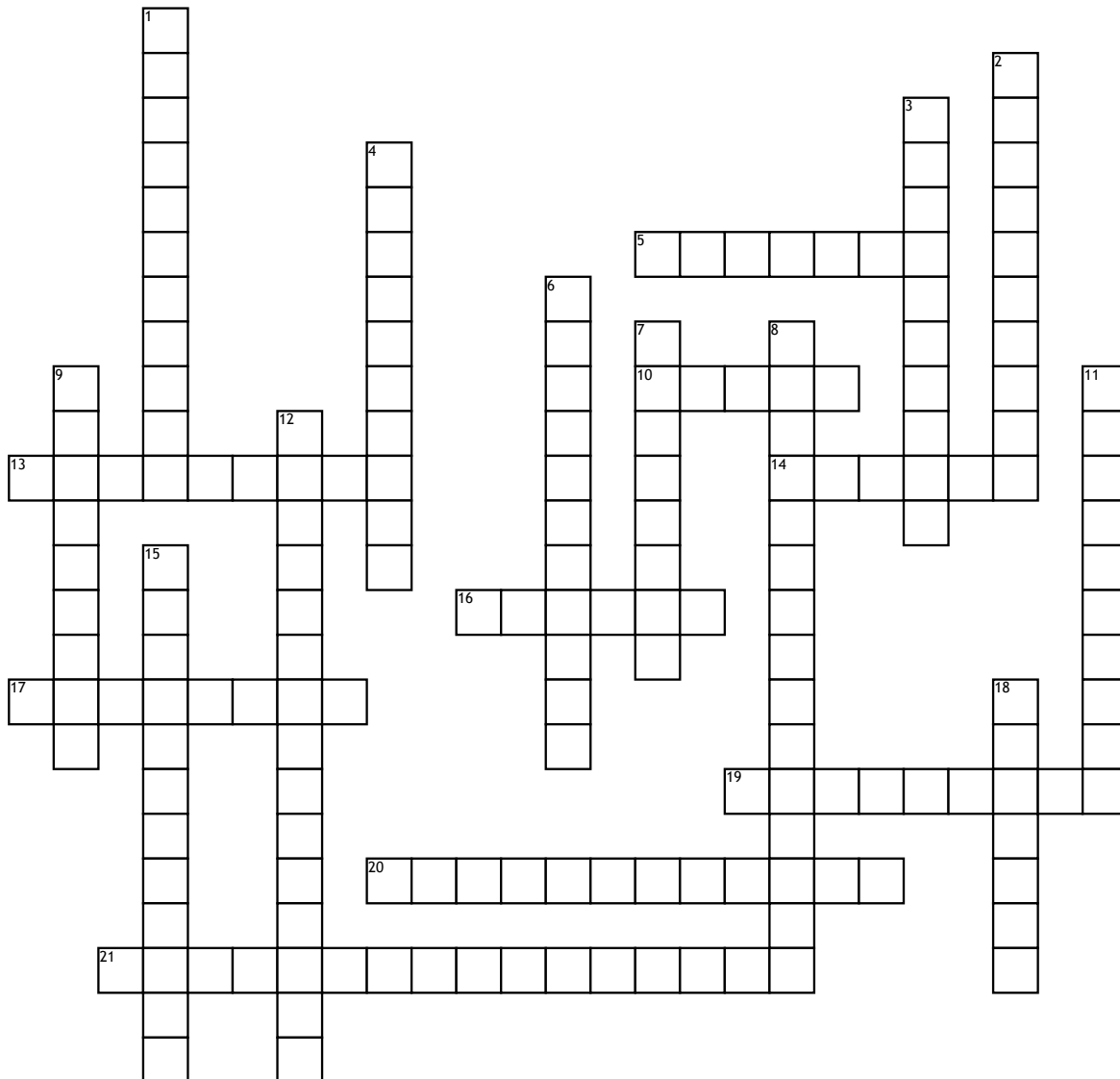


Animal and Plant Responses



Across

5. Directional plant growth responses in response to external stimuli.

10. Directional movements of animals in response to external stimuli.

13. The seasonal movement of complete populations of animals to a more favourable environment

14. Any of a group of plant growth hormones that promote growth by cell enlargement, the maintenance of apical dominance and the initiation of root formation in cuttings.

16. The ability of an organism to find its way back to a specific area

17. The directional movement of an animal in response to gravity

19. Animals that are active at night

20. The directional growth of plant organs in response to water in the environment

21. A roughly periodic change in the behaviour or physiology of an organism that is generated and maintained by a biological clock.

Down

1. Animals that are most active at dawn and dusk.

2. Describing a substance, stimulus, organ etc. that originates from within an organism

3. The directional movement of an animal in response to chemicals in the environment

4. Behaviour or physiology of animals or plants which approximates the cycle of a lunar month.

6. The resetting of the biological clock on a regular basis, forcing it to take up the period of the environmental cycle.

7. A colourless hydrocarbon gas, C₂H₄, that occurs naturally in many plants and acts as a growth substance. It is often used to ripen fruit commercially.

8. A plant growth response away from a stimulus

9. The environmental agent that resets the biological clock.

11. Behaviour or physiology of animals or plants which approximates the cycle the tides.

12. The mechanism that produces regular periodic changes in behaviour or physiology.

15. The directional growth of plant organs in response to light

18. The directional movement of a cell or organism in response to a stimulus in which rate of movement depends on the intensity