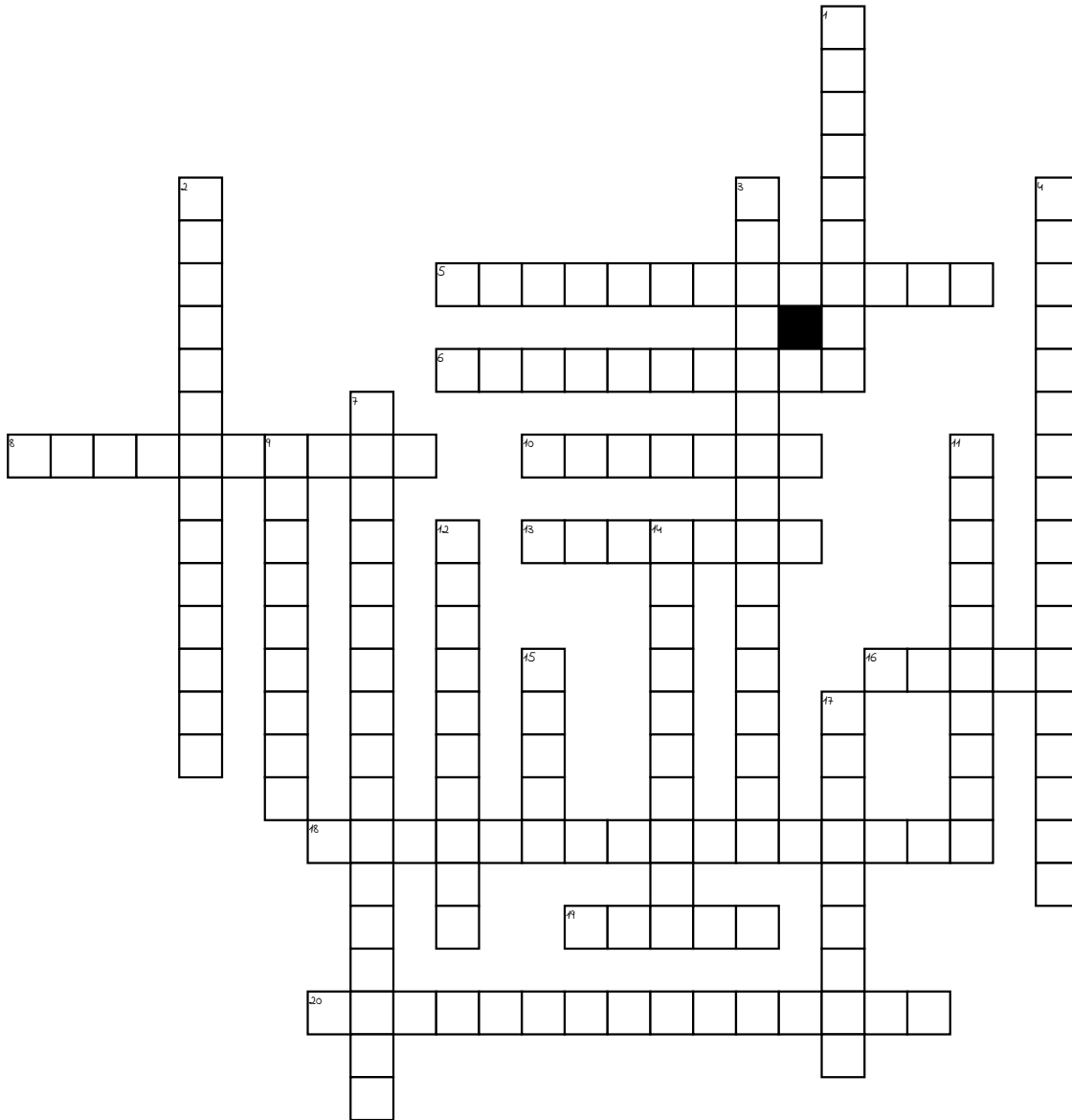


Plate Tectonics



Across

5. an undersea mountain chain where new ocean floor is produced
6. the direct transfer of thermal energy from one substance to another substance that it is touching
8. the transfer of thermal energy by the movement of a fluid
10. the name of the single landmass that broke apart 200 million years ago and gave rise to today's continents
13. the amount of mass of a substance in a given volume
16. a section of the lithosphere that slowly moves over the asthenosphere, carrying pieces of continental and oceanic crust

18. a well-tested concept that explains a wide range of observations

19. a device that determines the distance of an object under water by recording echoes of sound waves

20. a deep valley along the ocean floor beneath which oceanic crust slowly sinks toward the mantle

Down

1. the direct transfer of energy through space by electromagnetic waves
2. the theory that pieces of earth's lithosphere are in constant motion, driven by convection currents in the mantle
3. the hypothesis that the continents slowly move across Earth's surface
4. the process by which molten material adds new oceanic crust to the ocean floor

7. the movement of a fluid, caused by differences in temperature, that transfers heat from one part of the fluid to another

9. a plate boundary where two plates move past each other in opposite directions (slide)

11. a deep valley that forms where two plates move apart

12. a plate boundary where two plates move toward each other

14. the process by which oceanic crust sinks beneath a deep-ocean trench and back into the mantle

15. break or crack in Earth's lithosphere along which the rocks move

17. a plate boundary where two plates move away from each other