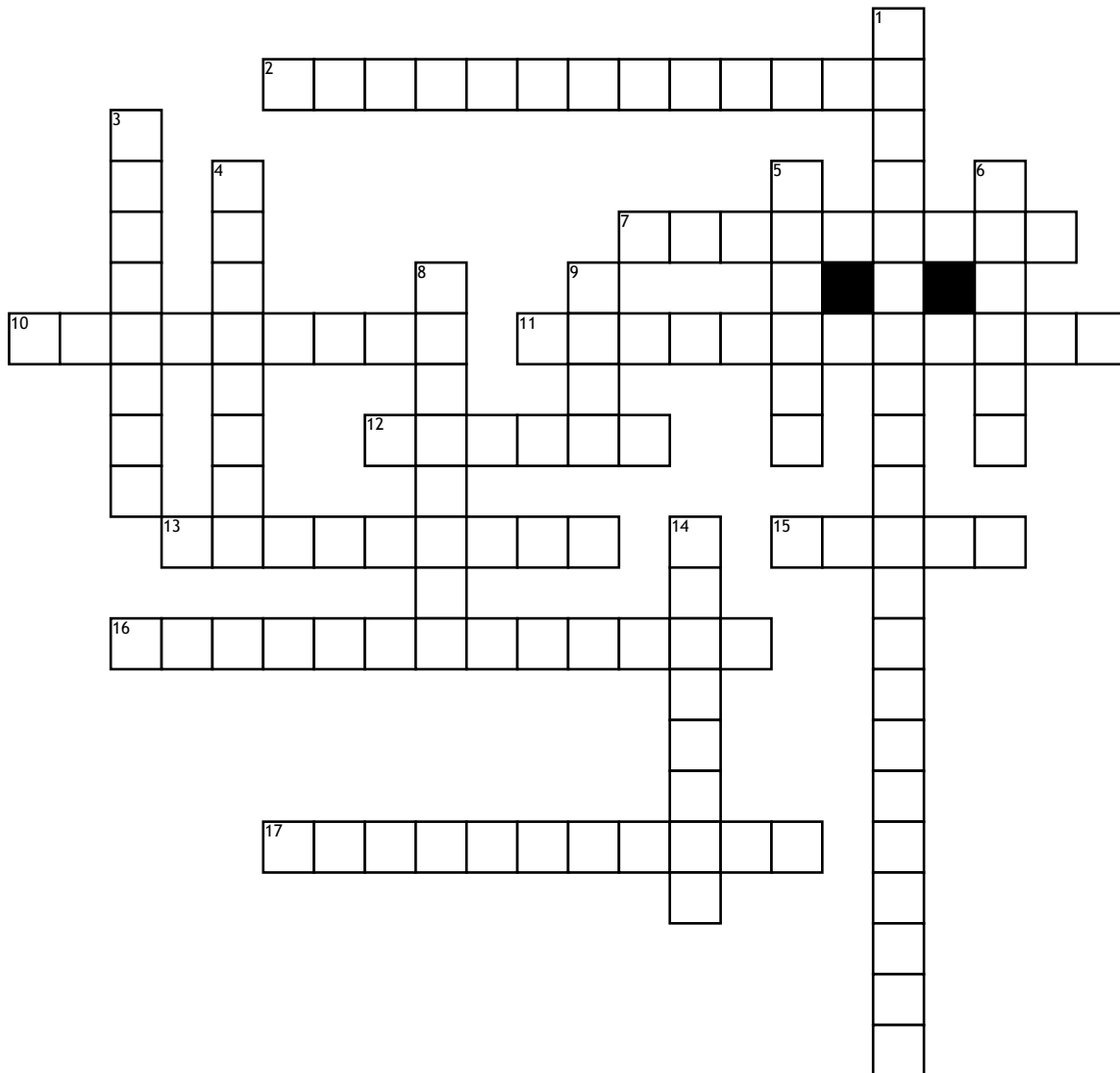


Electric fields topic



Across

2. a line or surface in a field along which the electric or gravitational potential is constant.

7. the work done per unit charge on a small positively charged object to move it from infinity to that point in the field

10. Movement of charge on an object caused by bringing another charged object near to it

11. _____ of free space (ϵ_0)

12. The nucleus of hydrogen

13. A material containing no free electrons

15. a line of force

16. Newton's law of gravitation and Coulomb's law of force are examples!

17. the name of the equation for force between two charges

Down

1. the force per unit charge on a small positively charged object at that point in the field.

3. = EQd

4. a lepton of rest mass 9.11×10^{-31} kg and electric charge -1.60×10^{-19} C

5. A variable that has both magnitude and direction, e.g. electric field strength

6. A field in which the field lines are straight and converge or diverge as if from a single point.

8. the change in electric field strength as field lines get closer together

9. Work done moving a charge around an equipotential

14. shape of pathway of moving electron in an electric field