

**ACROSS**

2. All charges are on the \_\_\_\_\_ of a conductor.
5. Field strength inside a hollow metal sphere (or any enclosed conductor)
7. Strength of an electric field is indicated by the \_\_\_\_\_ of the field lines.
9. The volt is the unit for electric \_\_\_\_\_.
10. Unit for "charge"
12. Ratio of charge stored to electric potential difference (q/V)...measured in farads.
13. The electric potential difference between two parallel plates is given by:  $\Delta V =$
14. Force thru a distance.
15. EP = EPE per \_\_\_\_\_
16. Unlike charges \_\_\_\_\_.
17. \_\_\_\_\_ generator builds up high voltages.
19. If distance is doubled, then the force acting on a charge within an electric field will be one \_\_\_\_\_ (1/?)
26. Unit of capacitance...=C/V
27. As an electric field becomes stronger, the field lines should be drawn \_\_\_\_\_.
28. EPE is the energy a charged object has because of its \_\_\_\_\_ in an electric field.
29. Connecting a charged object to Earth to remove excess charge.
30. As an electric field becomes \_\_\_\_\_, the field lines should be drawn closer.
31. The unit of electric potential energy is the \_\_\_\_\_.

**DOWN**

1. Electric field strength is equal to \_\_\_\_\_ per unit charge.
3. The direction of an electric field is determined by the force acting on a \_\_\_\_\_, positive test charge.
4. Electric field lines are directed toward \_\_\_\_\_ charges.
6. Electric field lines are directed away from \_\_\_\_\_ charges.
7. Shock + c + r = \_\_\_\_\_
8. The unit of electric potential is the \_\_\_\_\_.
9. Work done on a charge is equal to its CHANGE in \_\_\_\_\_ energy.
10. Device for storing charge.
11. Electric field lines are directed \_\_\_\_\_ from positive charges.
18. A woman's hair stands out when she is in contact with a charged Van de Graaff generator because like charges \_\_\_\_\_.
20. Electric field lines are directed \_\_\_\_\_ negative charges.
21. \_\_\_\_\_ of an electric is indicated by the spacing of the field lines.
22. The direction of an electric field is determined by the force acting on a tiny, \_\_\_\_\_ test charge.
23. An electric field is a vector field because it has both magnitude and \_\_\_\_\_.
24. An electric field is a vector field because it has both \_\_\_\_\_ and direction.
25. Electric field strength is equal to force per unit \_\_\_\_\_