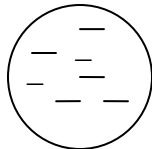


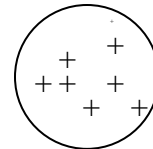
## Static Electricity Review Worksheet

1. What is a force? Give an example of an electric force.
2. What is meant by saying an object has an electrical charge? Give an example of how you could charge an object.
3. Define static electricity. How could you test to see if something has a static charge?
4. What is an electrical discharge? What evidence is there that a static discharge has taken place?
5. What are the laws of electric charges?
6. What is an electric field? How do we represent the strength of an objects electric field?
7. Draw in the electric field lines for the following charged spheres:

a.

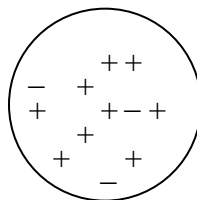
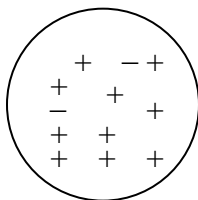


b.

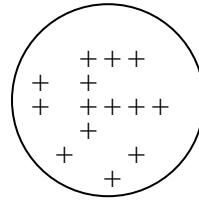
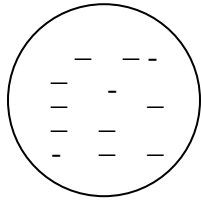


8. Draw the electric field between the following charged spheres:

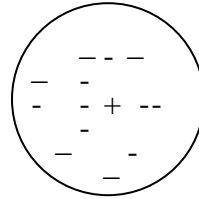
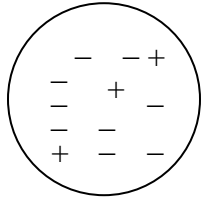
a.



b.



c.



9. What does "static" electricity mean?
10. What are two kinds of electric charges?
11. What particles in the atom move when electrical charge is transferred from one atom to another?
12. Explain and provide an example of the three ways in which objects can become electrically charged?
13. What is an insulator? Conductor? Give two examples of each.
14. Name and explain two ways to discharge objects.
15. What is the unit of electric force?
16. What is the law of conservation of charge?
17. Why does someone's hair stand on end when touching a van de Graff generator?
18. A van de Graff generator can generate a voltage of 100 - 200 000 Volts. Why is it safe to get shocked by it?
19. What is lightning? What are the names of the three possible discharges of lightning?