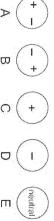
# Static Electricity Review Sheet

### **Word Bank**

	ohm(s)	lightning rod	conduction	positive
	Faraday cage	attract	polarization	negative
,	grounding	repel	neutron	neutral
	oppósite	proton(s)	conductor(s)	resistance
	the same	electron(s)	insulator(s)	friction

- 1. Electricity is due to the movement of this particle:
- 2. If an object has the same number of protons and electrons, it is electrically he who
- 3. If you charge something by conduction, both objects get charges that are
- 4. If you charge two objects by friction, they get charges that are Opposite
- 5. A neutral object becomes hositively charged if electrons are removed from it.
- 6. Unlike (different) charges # Hyrack one another.
- 7. Rubber, wood, and plastic are examples of Try whater.
- 8. The process of charging a neutral object by touching a charge to it is called charging by
- 9. Similar charges will Repd one another.
- 11. This particle is found in the nucleus of atoms and has a positive charge:
- 12. When two objects are rubbed together, this is charging by 上穴 c汁の
- 13. Removal of charge from an object by connecting it to water or the Earth is called
- 14. How easily charge flows through an object is its
- 15. An object designed to attract lightning strikes is called a Lightning Rod
- 16. Bringing a charged object near (but not touching) a neutral will charge the neutral object by Polarization
- 17. If you are inside a hollow conductor shell, you are safe from electricity, the shell is functioning as a(n)
- 18. A special class of materials with very low resistance are known as
- 19. Adding electrons to an object will give it a Negative charge
- 20. This particle is in the nucleus of atoms but is electrically neutral: Ne whose

Pick which situation is the result of each charging method below. All of the spheres started as neutral



- 21. A sphere is charged by conduction by a positive rod
- MA <sub>-</sub> 22. A sphere is charged by conduction by a negative rod
- 23. A positively charged rod is brought near the left side of the sphere.
- 24. A positively charged rod is brought near the right side of the sphere
- 25. A sphere has been grounded
- 26. A sphere is charged by friction by rabbit fur, and the fur gets a positive
- 27. A sphere is charged by friction by a balloon, and the balloon gets a negative charge

## **Conducting Spheres**

- 28) What charges result when these two spheres are brought together?
- a) +6C, +12C
- b) -4C, -6C
- c) +4C, 0C
- d) +2C, -10 C

Q = ne

29) 1.5E19 electrons have been added to an object. What is the charge on it?

30) An object has a charge of +8C. How many electrons have been taken out?

## Multi-Object Charge Interactions

31) Object D is positive. Object E repels Object D. Object F attracts Object E. Object G repels Object F. What charge(s) are possible for Objects D, E, F, and G?

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