Name: _____

Triboelectric Series Worksheet

If you rub wood and wool together, what will happen to each one? (Assume that both started out as neutral.)

The wood will gain electrons, making the wood become negatively charged.
The wool will lose electrons, making the wool become positively charged.

What will happen if you rub the following items together? Assume that all items are neutral before rubbing them! Use your Triboelectric Series sheet on p. 7 in your binder to help you complete the following problems.

1. wood and wool:
    a. The wood will _____gain_____ electrons, making it become ____negatively__ charged.
    b. The wool will _____lose_____ electrons, making it become _____positively_ charged.
1. brass and lead:
    a. The brass will _____ electrons, making it become _____ charged.
    b. The lead will _____ electrons, making it become _____ charged.
2. paper and vinyl:
    a. The paper will _____ electrons, making it become _____ charged.
    b. The vinyl will _____ electrons, making it become _____ charged.
3. vinyl and Styrofoam:
    a. The vinyl will _____ electrons, making it become _____ charged.
    b. The Styrofoam will _____ electrons, making it become _____ charged.
4. wood and Styrofoam:
    a. The wood will _____ electrons, making it become _____ charged.
    b. The Styrofoam will _____ electrons, making it become _____ charged.
5. Teflon and sealing wax:
    a. The Teflon will _____ electrons, making it become _____ charged.
    b. The sealing wax will _____ electrons, making it become _____ charged.
6. polyethylene and saran:
    a. The polyethylene will _____ electrons, making it become _____ charged.
    b. The saran will _____ electrons, making it become _____ charged.

7. sealing wax and polyethylene:
    a. The sealing wax will _____ electrons, making it become _____ charged.

    b. The polyethylene will _____ electrons, making it become _____ charged.

8. rayon and aluminum:
    a. The rayon will _____ electrons, making it become _____ charged.
    b. The aluminum will _____ electrons, making it become _____ charged.
9. cotton and human hair:
    a. The cotton will _____ electrons, making it become _____ charged.
    b. The human hair will _____ electrons, making it become _____ charged.
10. glass and gold:
    a. The brass will _____ electrons, making it become _____ charged.
    b. The brass will _____ electrons, making it become _____ charged.
11. human hair and gold:
    a. The human hair will _____ electrons, making it become _____ charged.
    b. The gold will _____ electrons, making it become _____ charged.
12. paper and mica:
    a. The paper will _____ electrons, making it become _____ charged.
    b. The mica will _____ electrons, making it become _____ charged.
13. silicon and nylon:
    a. The silicon will _____ electrons, making it become _____ charged.
    b. The nylon will _____ electrons, making it become _____ charged.
14. human hands and silk:
    a. The human hands will _____ electrons, making it become _____ charged.
    b. The silk will _____ electrons, making it become _____ charged.
15. polyethylene and polyester:
    a. The polyethylene will _____ electrons, making it become _____ charged.
    b. The polyester will _____ electrons, making it become _____ charged.