The Nature of Static Electricity

Electric Charges

Some examples of experiences of electric charge:

1.	
2	
-	
3.	

What is electric charge?

Electrically Charged Particles

Recall from the chemistry unit:

- an element is a pure substance that cannot be ______ any further
- pure substances are made of ______
- atoms are made of ______

Particle	Charge	Location

Draw the Bohr-Rutherford diagram for nitrogen

 When a substance has no charge, it is ______.

 This means that it has an ______ number of ______ and ______ charges.

When a substance becomes charged, it gains or loses ______.

Static Charges

When two neutral substances are rubbed together

- one substance becomes ______ charged by ______ electrons
- one substance becomes ______ charged by ______ electrons
- only the ______ in the outer orbit move

Static charge or static electricity

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Electrically Charging Materials

How do atoms gain or lose electrons to become electrically charged?

Electron Affinity

- different substances have different abilities to hold on to ______.
- the tendency of a substance to hold on to the electrons is called ______.

