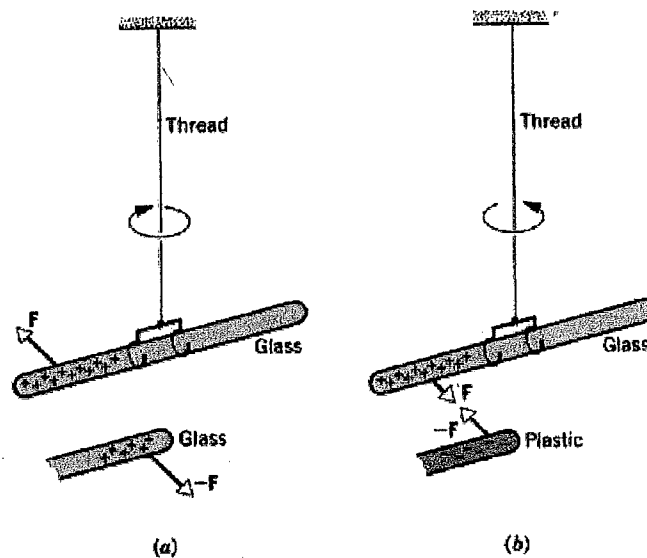


## Physics 12

### Section 16.1

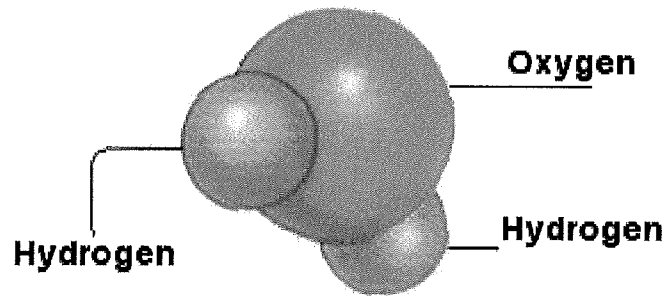
#### Rules of Static Electricity, Conservation of Electric Charge



1. Rules of Static Charge: Like charges repel, unlike charges attract and charged objects attract neutral objects.
2. There are two types of charge, positive + and negative -.
3. Benjamin Franklin first assigned these charges to objects. He assigned the positive charge to a glass rod as a result of rubbing it with a cloth. His initial assignment was arbitrary but once it was set all other charge assignment was based on his initial assignment and the rules of static charge.
4. The Law of Conservation of Electric Charge states that the net amount of electric charge produced in any process is zero. That is one object gains while another loses charge.

# Water Molecule

Negative End (-)



Positive End (+)