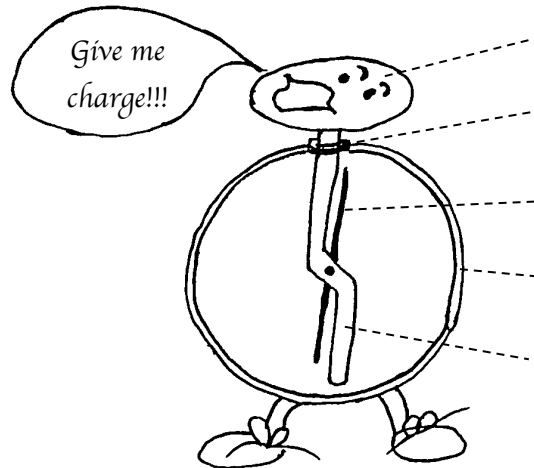


POINTER DEFLECTION IN AN ELECTROSCOPE

An electroscope is a device which shows a charge or a voltage. When electrically charged, the pointer will tilt and show a deflection.



The *head*, *metal rod* and *pointer* are made of metal and connected to each other. There's an *insulator* between those parts and the case, preventing the flow of electric charges.

Tasks

1. Label the above figure with the terms written in italics.
2. Figure out how an electroscope works. As an example use the figure below for your reflections. Draw in the figure what is happening step by step:
 - Negative charges are being applied to the head of the electroscope. Where will they go?
 - The electrons will also spread onto the pointer. What's happening to the pointer?
 - Draw the position of the pointer in the figure, as well as the charge distribution within the pointer.

