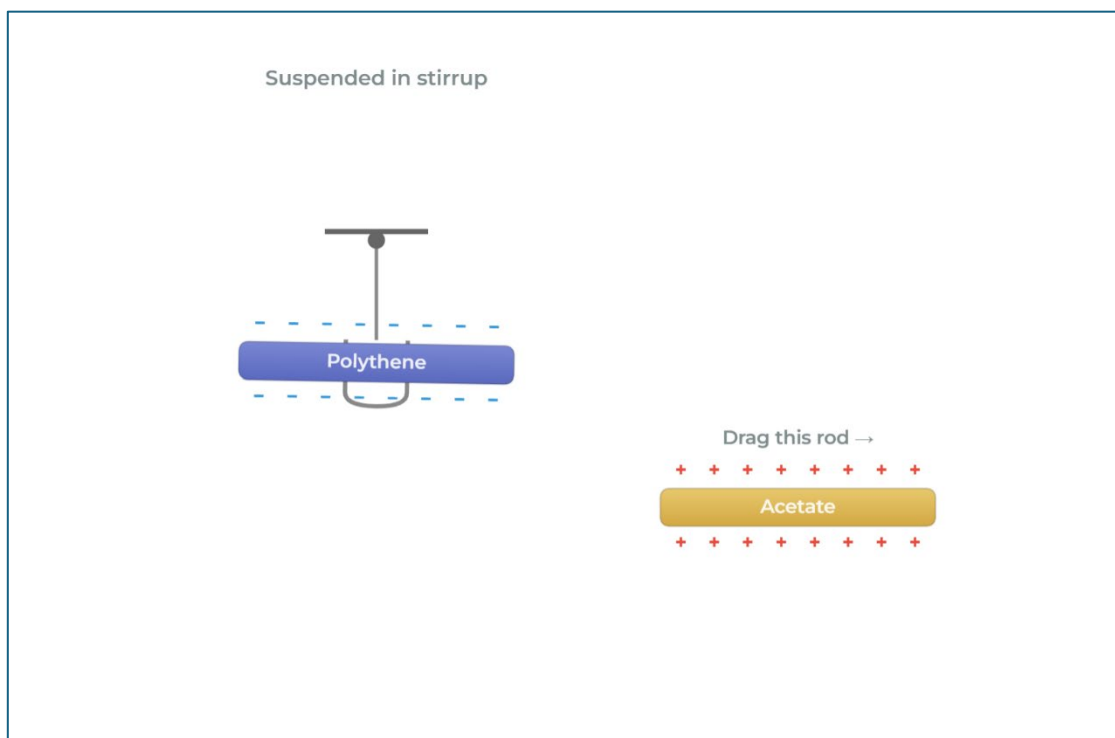


Electrostatic Charging

Aim: To investigate how insulating materials can be charged through friction



Method:

1. Choose a material for the **suspended rod** (Polythene or Acetate) and click *Rub with cloth* to charge it.
2. Choose a material for the **hand-held rod** and rub it with the cloth too.
3. **Drag the hand-held rod** toward the suspended rod and observe how it reacts — the closer you bring it, the stronger the effect.
4. Record your observation in the results table below — select *Attract* or *Repel* and whether the charges are the *Same* or *Different*.
5. Click **Reset** and repeat for all four combinations in the table.

Results:

Suspended rod	Hand-held rod	Attract or repel?	Same or different charge?

Analysis:

Explain why you think the polythene and acetate rods behaved in the way you observed

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Explain why the two polythene rods behaved the way you observed

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Explain why the two acetate rods behaved the way you observed

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