



## Sometimes (unfortunately), a bit of physics is needed for chemistry

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- Open the following link: [Discovering the electrostatic interaction](#)
  - Click on the “atomic scale” tab
- 1. Propose and implement protocols to quantitatively demonstrate the influence of the charge of each of the entities and the distance between the 2 entities on the interaction between the charged entities**
    - For each study, explicitly define the independent variable, the dependent variable, and at least 2 controlled variables.
  - 2. Pool the 3 studies to propose an expression for the electrostatic interaction force**

*A little help:*

*An analogy can be made with an interaction you discovered last year in physics, the gravitational interaction.*

*The formula for this interaction is:*

$$F_{G_{A/B}} = F_{G_{B/A}} = G \frac{m_A m_B}{d_{AB}^2}$$