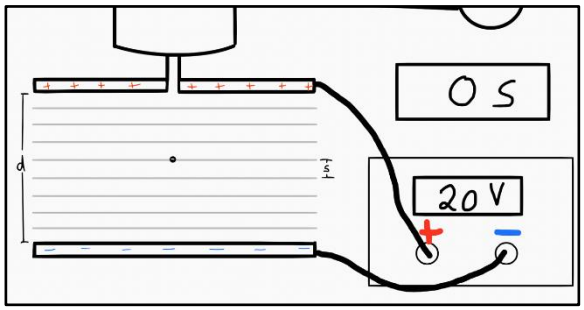
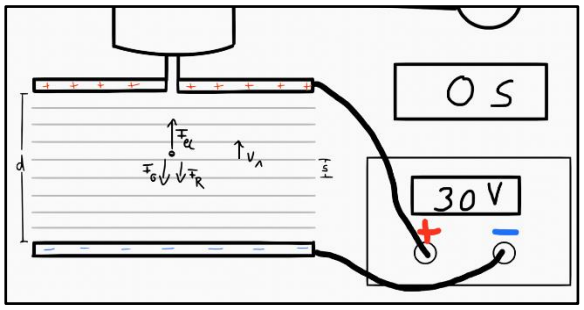
Arbeitsblatt – Millikan-Versuch (Steig-Sink-Methode)

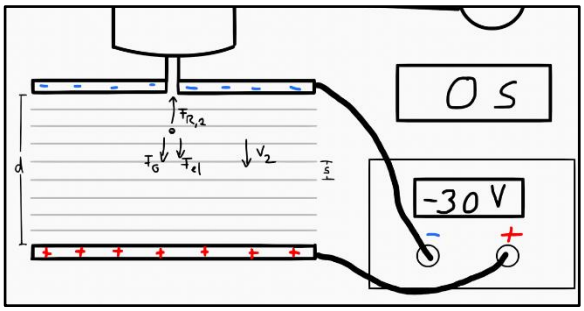
Aufgabe: Erläutere anhand des Millikan-Versuchs die grundlegenden Ideen und Ergebnisse zur Bestimmung der Elementarladung.

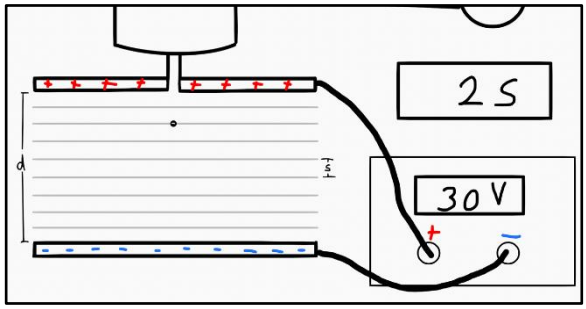
Aufbau: Der Aufbau ist derselbe, wie bei der „Schwebe-Fall-Methode“.

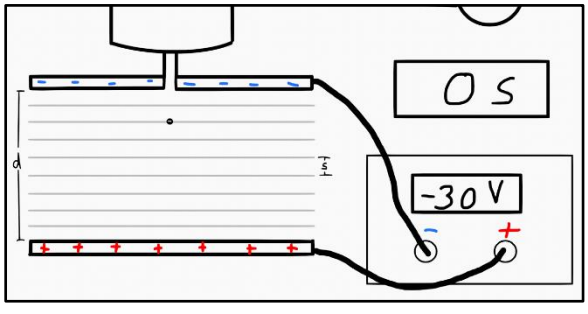
Durchführung: _____

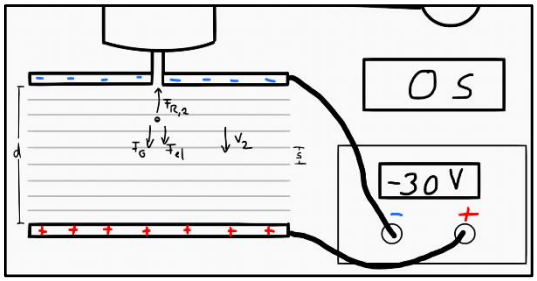


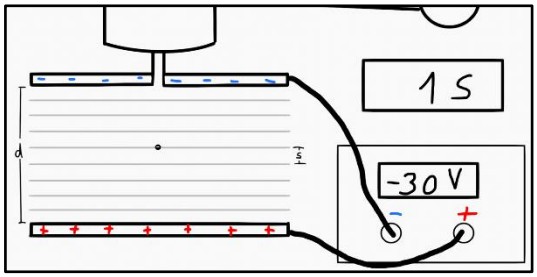


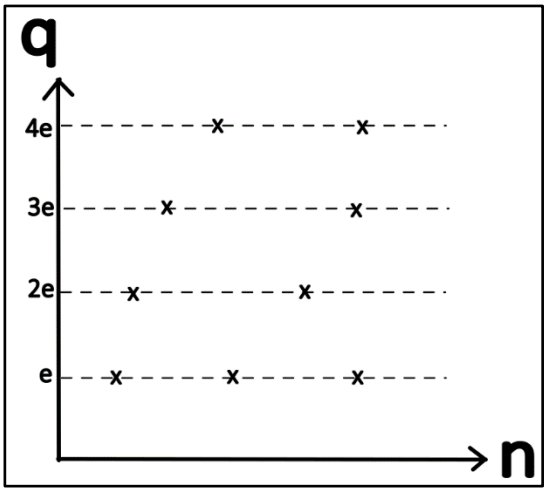












Formel:

$$q = \frac{9 \cdot \pi \cdot d}{2 \cdot U} \cdot \sqrt{\frac{\eta^3}{\rho_{Öl} \cdot g}} \cdot \sqrt{v_2 - v_1} \cdot (v_1 + v_2)$$

Ergebnis: