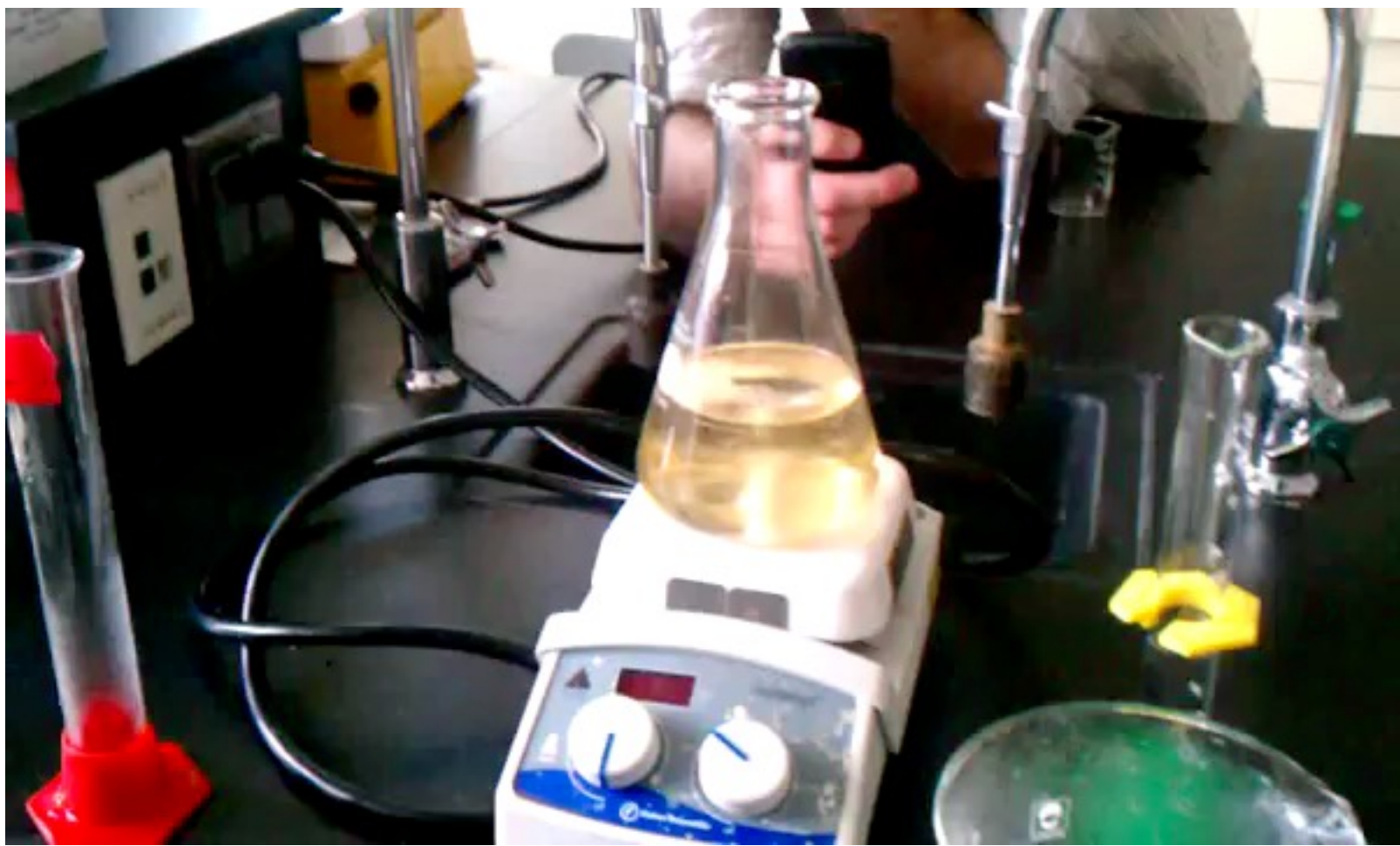
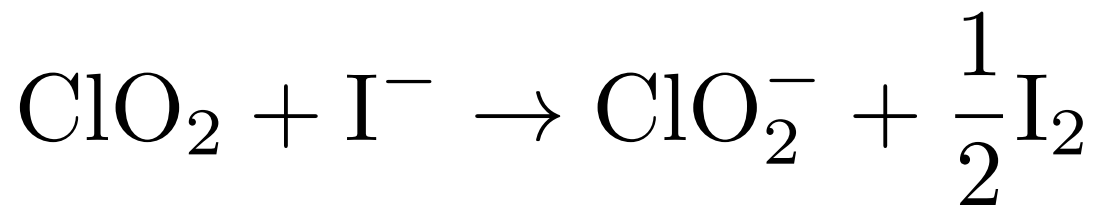


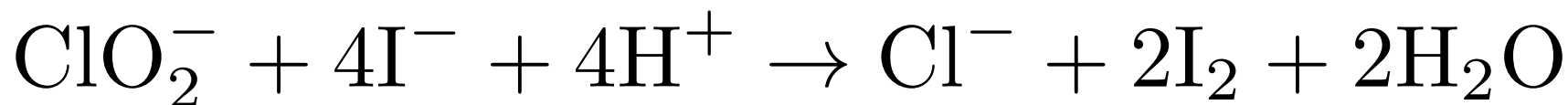




$$\frac{d[\text{I}_2]}{dt} = -\frac{k_{1a}[\text{MA}][\text{I}_2]}{k_{1b} + [\text{I}_2]}$$



$$\frac{d[\text{ClO}_2]}{dt} = -k_2[\text{ClO}_2][\text{I}^-]$$



$$\frac{d[\text{ClO}_2^-]}{dt} = -k_{3a}[\text{ClO}_2^-][\text{I}^-][\text{H}^+] - k_{3b}[\text{ClO}_2^-][\text{I}_2]\frac{[\text{I}^-]}{u + [\text{I}^-]^2}$$