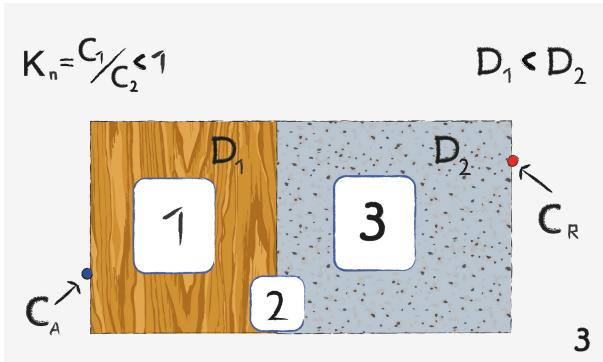


Diffusion: Task 3



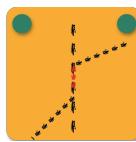
The image describes 2 rectangular bodies with different diffusion coefficients, where $D_2 > D_1$ and on the interface the concentration of 2 is larger than in 1. ($C_1 < C_2$)

1



According to Fick's law, at constant area and diffusion coefficient the concentration profile decreases linearly from area of high concentration to low concentration

2



The diffusion coefficient in 1 is smaller than in 2, so the slope in 1 is steeper than in 2. On the interface, the concentration in 2 is larger than in 1

3



According to Fick's law, at constant area and diffusion coefficient the concentration profile decreases linearly from area of high concentration to low concentration