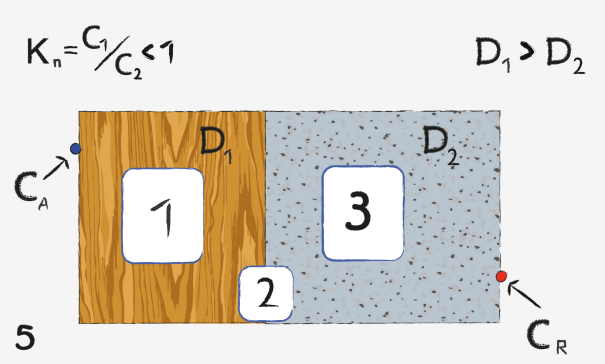
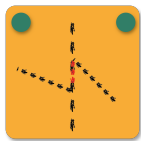
Diffusion: Task 5



The image describes 2 rectangular bodies with different diffusion coefficients, where $D_1 > D_2$ 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 2 is smaller than in 1 , so the slope in 2 is steeper than in 1. 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