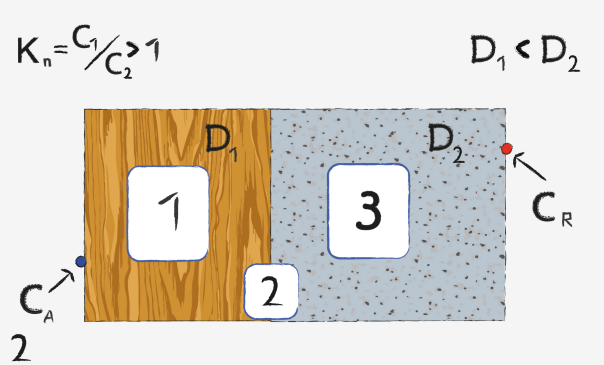
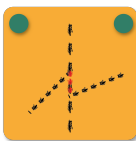
Diffusion: Task 2



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. ($C_2 < C_1$)

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 1 is larger than in 2

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