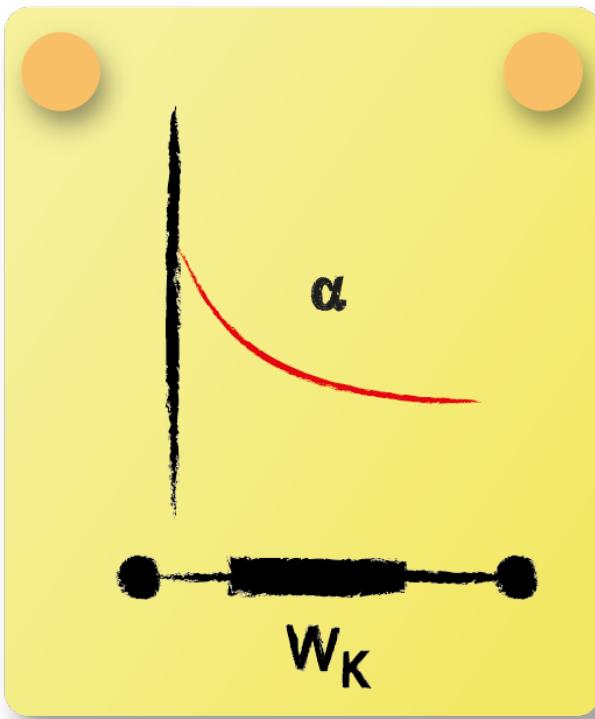


# Heat Transfer Resistance: Task 3



A flat plate is given with heat transfer coefficient  $\alpha$  and surface  $A$ .

Heat transfer resistance is defined as:

$$W = \frac{\Delta T}{\dot{Q}}$$



With convective heat flux:

$$\dot{Q} = \alpha \Delta T A$$

One obtains:

$$W = \frac{1}{\alpha A}$$