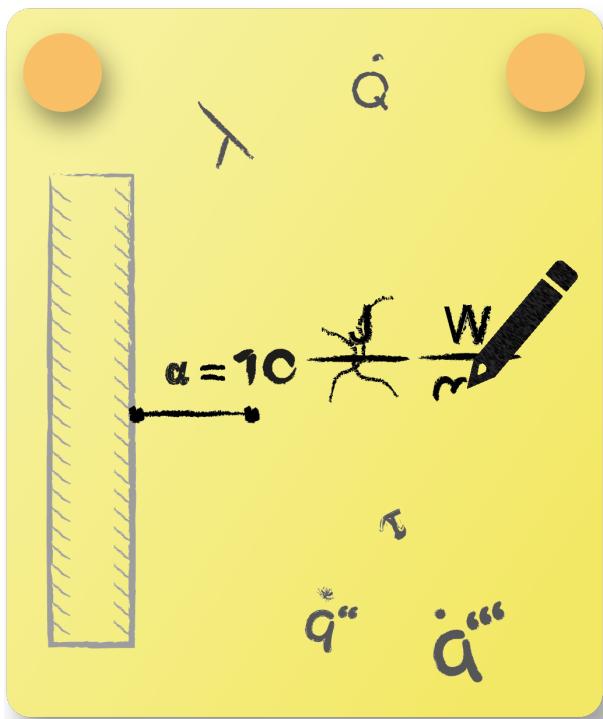




## Unit: Task 11



The Stefan-Boltzmann constant is represented by  $\sigma$ .

1



$$[\sigma] = \frac{W}{m^2 K^4}$$

2



The Stefan-Boltzmann constant states the specific ( $m^2$ ) emitted heat flux ( $W$ ) of a black body, which is proportional to the fourth power of the temperature ( $K^4$ ).