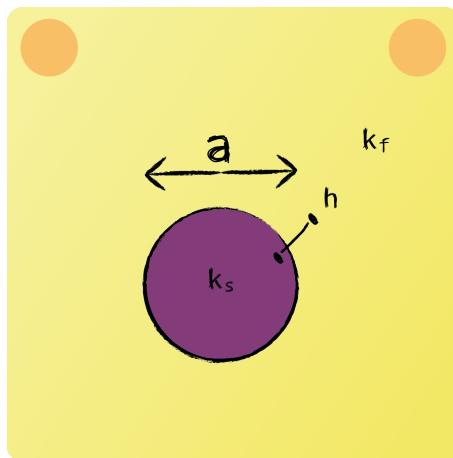


# Lecture 06 - Characteristic Length 03

Give an expression for the characteristic length  $L_c$ , for a sphere subjected to convection.



The characteristic length of a sphere:

$$L_c = \frac{V}{A_s} = \frac{\frac{4}{3}\pi a^3}{4\pi a^2} = \frac{a}{3}$$