



## Newton's second law

- What does Newton's second law state?
- Give a formula that allows one to calculate the derivative  $\frac{df}{dx}$  of the function  $f(x)$  as a limit.
- By solving the limit that you wrote down in answer to the previous question show that the derivative of the function  $f(x) = x^3$  is equal to  $3x^2$ .