

Dynamical Variable	Associated Operator
Position: $x, y, z$	$\rightarrow \underline{x} = x \cdot$ $\rightarrow \underline{y} = y \cdot$ $\rightarrow \underline{z} = z \cdot$
Function of position: $f(x, y, z)$	$\rightarrow \underline{f} = f(x, y, z) \cdot$
Momentum: $p_x, p_y, p_z$	$\rightarrow \underline{p}_x = \frac{\hbar}{i} \frac{\partial}{\partial x}$ $\rightarrow \underline{p}_y = \frac{\hbar}{i} \frac{\partial}{\partial y}$ $\rightarrow \underline{p}_z = \frac{\hbar}{i} \frac{\partial}{\partial z}$
Vector momentum:	$\rightarrow \underline{p} = i_x \underline{p}_x + i_y \underline{p}_y + i_z \underline{p}_z = \frac{\hbar}{i} \nabla$
Kinetic energy:	$\rightarrow \underline{K} = \frac{1}{2m} (\underline{p}_x^2 + \underline{p}_y^2 + \underline{p}_z^2) = -\frac{\hbar^2}{2m} \nabla^2$
Potential energy:	$\rightarrow \underline{V} = V(x, y, z) \cdot$
Total energy	$\rightarrow \underline{\epsilon} = i\hbar \frac{\partial}{\partial t}$
Hamiltonian	$\rightarrow \underline{H} = \underline{K} + \underline{V}$