Easy Patterns – Mechanics

- **Linear motion and rotary motion symbols**

Linear motion	Rotational motion
s	θ
v	ω
a	α
m	I *(Rotational inertia)*
F	T *(letter Tau)*
Linear momentum $= mv$	*Angular momentum* $= I\omega$
$F = ma$	$\tau = Ia$
$K.E. = \frac{1}{2}mv^2$	*Rotational K.E.* $= \frac{1}{2}I\omega^2$
$W = Fs$	*Rotation function* $= \tau\theta$
$P = Fv$	*Rotation* $P = \tau\theta$