Vocabulary: Particle, System of Particles, Rigid body

Word	Particle Q	System of particles S	Rigid body B	Relation to force/torque
Mass	 m_Q or m^Q	m^S =	m^B =	$\mathbf{F}^Q = m^Q\ {}^N\mathbf{a}^Q$ $\mathbf{F}^S = m^S\ {}^N\mathbf{a}^{Scm}$ $\mathbf{F}^B = m^B\ {}^N\mathbf{a}^{Bcm}$
Translational Momentum	${}^N\mathbf{L}^Q$ =	${}^N\mathbf{L}^S$ =	${}^N\mathbf{L}^B$ =	
Angular Momentum (moment of momentum)	${}^N\mathbf{H}^{Q/O}$ =	${}^N\mathbf{H}^{S/O}$ =	${}^N\mathbf{H}^{B/Bcm}$ = ${}^N\mathbf{H}^{B/O}$ =	
Kinetic Energy	${}^NK^Q$ =	${}^NK^S$ =	${}^NK^B$ = . ${}^NK^B$ = .	
Advanced Dynamics				
Effective Force				
Moment of Effective Force				
Generalized Effective Force				
Generalized Momentum				