TABLE 1

Physics symbols perceived by students as changing between secondary and undergraduate studies.

Secondary symbolic representation	Undergraduate physics symbolic representation
x: displacement s: displacement u: initial velocity v: final velocity	Δx : displacement v_{ix} : initial velocity in horizontal direction, or v_0 : initial velocity v_{fx} : final velocity in horizontal direction
I: impulse	J, impulse
$\hat{i}, \hat{j}, $ and \hat{k} and : unit vectors	\hat{x} , \hat{y} , and \hat{z} , and : unit vectors
R: normal reaction force	N: normal reaction force
f_0 : base frequency	f_1 : base frequency
c – general constant	k: general constant
a : magnitude of a vector	a: magnitude of a vector
Logarithm: assumed as base 10	Logarithm: assumed as base e