LaTeX Cheat Sheet

Common Formatting

Style	Example LaTeX	Result
Italic	`\textit{Words}`	*Words*
Bold	`\textbf{Words}`	**Words**
Small Caps	`\textsc{Words}`	WORDS
Typewriter	`\texttt{Words}`	Words
Underline	`\underline{Words}`	Words

Chemistry

Symbol/Formatting	Example LaTeX	Result
Superscript	`Ca^{2+}`	Ca^{2+}
Subscript	`H_{2}O`	H_2O
Plus or minus	`\pm`	$\pm$
Degree	`30^{\circ}C`	$30°C$
Right arrow	`\rightarrow`	$\rightarrow$
Double-hook arrow	`\rightleftharpoons`	$\rightleftharpoons$
Dot	`KOH\cdot2H_{2}O`	$KOH{\cdot}2H_2O$

Greek letters

Letter	LaTeX	Letter	LaTeX	Letter	LaTeX	Letter	LaTeX
α	`\alpha`	ι	`\iota`	σ	`\sigma`	Δ	`\Delta`
β	`\beta`	κ	`\kappa`	ς	`\varsigma`	Θ	`\Theta`
γ	`\gamma`	λ	`\lambda`	τ	`\tau`	Λ	`\Lambda`
δ	`\delta`	μ	`\mu`	υ	`\upsilon`	Ξ	`\Xi`
ϵ	`\epsilon`	ν	`\nu`	φ	`\phi`	Π	`\Pi`
ε	`\varepsilon`	ξ	`\xi`	ϕ	`\varphi`	Σ	`\Sigma`
ζ	`\zeta`	π	`\pi`	χ	`\chi`	Υ	`\Upsilon`
η	`\eta`	ϖ	`\varpi`	ψ	`\psi`	Φ	`\Phi`
θ	`\theta`	ρ	`\rho`	ω	`\omega`	Ψ	`\Psi`
ϑ	`\vartheta`	ϱ	`\varrho`	Γ	`\Gamma`	Ω	`\Omega`

Math

Symbol/Formatting	Example LaTeX	Result
Fractions	`\frac{2}{3}`	$\frac{2}{3}$
Roots	`\sqrt[3]{8}`	$\sqrt[3]{8}$
Less than	`<`	$<$
Greater than	`>`	$>$
Much less than	`\ll`	$\ll$
Much greater than	`\gg`	$\gg$
Less than or equal	`\leq`	$\leq$
Greater than or equal	`\geq`	$\geq$
Not equal	`\neq`	$\neq$
Approximate	`\approx`	$\approx$
Similar	`\sim`	$\sim$
Multiplication	`\times`	$\times$
Left angled bracket	`\langle`	$\langle$
Right angled bracket	`\rangle`	$\rangle$
Integral	`\int`	$\int$
Partial derivative	`\partial`	∂
Infinity	`\infty`	∞
Vector label	`\vec{a}`	$\vec{a}$
Sums	`\sum_{k=1}^n`	$\sum_{k=1}^{n}$
Products	`\prod_{k=1}^n`	$\prod_{k=1}^{n}$