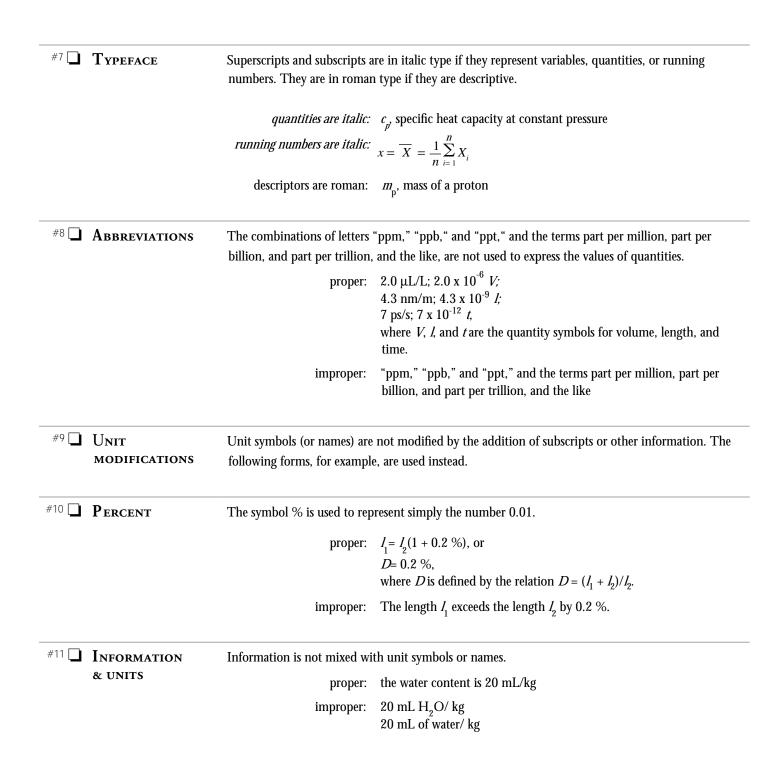
SI unit rules and style conventions Checklist for reviewing manuscripts

#1 GENERAL	Only units of the SI and those units recognized for use with the SI are used to express the values of quantities. Equivalent values in other units are given in parentheses following values in acceptable units only when deemed necessary for the intended audience.		
#2 Abbreviations	Abbreviations such as sec, cc, or mps are avoided and only standard unit symbols, prefix symbols, unit names, and prefix names are used.		
	proper:	s or second; cm ³ or cubic centimeter; m/s or meter per second	
	improper:	sec; cc; mps	
#3 D Plurals	Unit symbols are unaltered in	n the plural.	
	proper:	<i>I</i> = 75 cm	
	improper:	I = 75 cms	
#4 D Punctuation	Unit symbols are not followe	ed by a period unless at the end of a sentence.	
	proper:	The length of the bar is 75 cm. The bar is 75 cm long.	
	improper:	The bar is 75 cm. long.	
#5 Multiplication & division	A space or half-high dot is used to signify the multiplication of units. A solidus (<i>i.e.</i> , slash), horizontal line, or negative exponent is used to signify the division of units. The solidus must not be repeated on the same line unless parentheses are used.		
	proper:	The speed of sound is about 344 m·s ⁻¹ (meters per second) The decay rate of 113 Cs is about 21 ms ⁻¹ (reciprocal milliseconds) m/s, m·s ⁻² , m·kg/(s ³ ·A), m·kg·s ⁻³ ·A ⁻¹ m/s, m·s ⁻² , m kg/(s ³ A), m kg s ⁻³ A ⁻¹	
	improper:	The speed of sound is about 344 ms $^{-1}$ (reciprocal milliseconds) The decay rate of 113 Cs is about 21 m·s $^{-1}$ (meters per second) m÷s, m/s/s, m·kg/s 3 /A	
#6 🗖 Түребасе	Variables and quantity symbols are in italic type. Unit symbols are in roman type. Numbers should generally be written in roman type. These rules apply irrespective of the typeface used in the surrounding text.		
	proper:	She exclaimed, " <i>That dog weighs</i> 10 kg?' $t = 3$ s, where t is time and s is second $T = 22$ K, where T is thermodynamic temperature, and K is kelvin	
	improper:	He exclaimed, " <i>That dog weighs 10 kg!</i> " $t = 3$ s, where t is time and s is second $T = 22$ K, where T is thermodynamic temperature, and K is kelvin	



#12 🔲	Math notation	It is clear to which unit symleto the value of a quantity.	ool a numerical value belongs and which mathematical operation applie	
		- v	35 cm x 48 cm 1 MHz to 10 MHz or (1 to 10) MHz	
			20 °C to 30 °C or (20 to 30) °C 123 g ± 2 g or (123 ± 2) g 70 % ± 5 % or (70 ± 5) %	
			$240 \text{ x } (1 \pm 10 \%) \text{ V}$	
		improper:	35 x 48 cm	
			1 MHz–10 MHz or 1 to 10 MHz 20 °C–30 °C or 20 to 30 °C	
			123 ± 2 g	
			70 ± 5 %	
			240 V \pm 10 % (one cannot add 240 V and 10 %)	
#13 🔲	Unit symbols & names	Unit symbols and unit names are not mixed and mathematical operations are not applied to unit names.		
		proper:	kg/m^3 , $kg \cdot m^{-3}$, or kilogram per cubic meter	
		improper:	kilogram/m³, kg/cubic meter, kilogram/cubic meter, kg per m³, or kilogram per meter³.	
#14 🛄	Numerals & unit symbols	Values of quantities are expressed in acceptable units using Arabic numerals and symbols for uni		
	SIMBOLS	proper:	m = 5 kg the current was 15 A	
		improper:	m = five kilograms	
			m = five kg the current was 15 amperes	
			the current was 13 amperes	
#15 🔲	Unit spacing	-	the numerical value and unit symbol, even when the value is used in an the case of superscript units for plane angle.	
		proper:	0 1	
			an angle of 2° 3′ 4″	
			If the spelled-out name of a unit is used, the normal rules of English apply: "a roll of 35-millimeter film."	
		improper:	a 25-kg sphere	
		шфторог.	an angle of 2 ° 3 ′ 4 ″	
#16 🛄	DIGIT SPACING	The digits of numerical values having more than four digits on either side of the decimal marker are separated into groups of three using a thin, fixed space counting from both the left and right of the decimal marker. Commas are not used to separate digits into groups of three.		
		proper:	15 739.012 53	
		improper:	15739.01253	

#17 🛄	Quantity equations			
		proper:	$(l/m) = 3.6^{-1} [v/(km/h)](t/s)$	
		improper:	$I = 3.6^{-1}$ vt, accompanied by text saying, "where I is in meters, v is in kilometers per second, and t is in seconds	
#18 🛄	STANDARD SYMBOLS	Standardized quantity symbols are used. Similarly, standardized mathematical signs and symbols are used. More specifically, the base of "log" in equations is specified when required by writing $\log_a x$ (meaning log to the base a of x), lb x (meaning $\log_2 x$), ln x (meaning $\log_e x$), or lg x (meaning $\log_{10} x$).		
		proper:	tan x R for resistance A_r for relative atomic mass	
		improper:	tg x for tangent of x words, acronyms, or ad hoc groups of letters	
#19 🛄	WEIGHT VS. MASS	When the word "weight" is used, the intended meaning is clear. (In science and technology, weight is a force, for which the SI unit is the newton; in commerce and everyday use, weight is usually a		
		synonym for mass, for which the SI unit is the kilogram.)		
#20 🔲	QUOTIENT	A quotient quantity is writte	it quantity is written explicitly.	
	QUANTITY	proper:	mass divided by volume	
		improper:	mass per unit volume	
#21 🗖	OBJECT & QUANTITY	An object and any quantity describing the object are distinguished. (Note the difference between "surface" and "area," "body" and "mass," "resistor" and "resistance," "coil" and "inductance.")		
		proper:	A body of mass 5 g	
		improper:	A mass of 5 g	
#22 🛄	Obsolete terms	The obsolete terms molarity	, normality, and molal are not used.	
		proper:	amount-of-substance concentration of B (more commonly called concentration of B) and its symbol $c_{\rm B}$ and SI unit mol/m³ (or a related acceptable unit)	
			molality of solute B, and its symbol $b_{\rm B}$ or $m_{\rm B}$ and SI unit mol/kg (or a related unit of the SI)	
		improper:	Molarity and the symbol M, normality and the symbol N molal and the symbol ${\tt M}$	
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