# List of useful LaTeX commands

### Preamble essentials

\documentclass{ <type>}</type>	Overall layout
\usepackage{ <pkg>}</pkg>	Loads a package
\title{your-title}	Title
\author{your-name}	Author
\date{2025-02-31}	Date

# \item List item \begin{figure} ...\end{figure} figure environment \includegraphics{<path>} Adds a picture \caption{Caption} Caption \begin{table} ...\end{table} Tabular container \begin{tabular} ...\end{tabular} Creates a table \label{<label>} Creates a label \ref{<label>} References a fig/tab/eq

include = TRUE/FALSE	Show code and output?
message = TRUE/FALSE	Show messages?
warning = TRUE/FALSE	Show warnings?

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# Sectioning

\section{Section 1}	Numbered section
\section*{Section}	Unnumbered section $^a$
\subsection{Subsection 1.1}	Subsection
Subsubsection	on 1.1.1} Subsub-
section	
\paragraph{Paragraph}	Paragraph
\subparagraph{Subparagraph}	Subparagraph

# Markup

\textbf{Bold}	Bold
\textit{Italics}	Italics
\texts1{Slanted}	Slanted
<pre>\textsc{Small caps}</pre>	Small caps
\underline{Underline}	$\underline{\text{Underline}}$

# Lists and floats

\begin{itemize}\end{itemize} Bul	lleted list
$\verb \begin{enumerate}  \dots \end{enumerate}  N$	lumbered
list	
$\verb \description  \verb \end{description} $	n} De-
scription list	

### Math

\usepackage{amsmath}	Loads amsmath package
\$\$ or \(\)	Inline math mode
\$\$\$\$ or \[\]	Display math mode
\begin{equation} e	equation} equation
environment	
\begin{gather} gat	ther} gather environment
\begin{align}alig	gn} align environment

# Chemistry

\usepackage{mhchem}	Loads mhchem package
\ce{C6H12O6}	$C_6H_{12}O_6$
\$\to\$	$\rightarrow$
<pre>\$\rightleftharpoons\$</pre>	<del></del>

# R integration (knitr/Sweave)

< <options>&gt;==</options>	@	R code block
echo = TRUE/FALSE		Show R code in the document?
<pre>eval = TRUE/FALSE</pre>		Evaluate the code?

<sup>&</sup>lt;sup>a</sup>This carries over to subsections and subsubsections as well.