1 Sample

1.1 Bacteria

This section is about bacteria.

1.1.1 First Use

*Clostridium botulinum*, *Pseudomonas putida*, *Clostridium perfringens*, *Bacillus subtilis*, *Clostridium tetani*, *Planifilum composti*, *Planifilum fimeticola*, *Coxiella burnetii*, *Rickettsia australis*, *Rickettsia rickettsii*.

1.1.2 Next Use

*C. botulinum*, *P. putida*, *C. perfringens*, *B. subtilis*, *C. tetani*, *P. composti*, *P. fimeticola*, *C. burnetii*, *R. australis*, *R. rickettsii*.

1.2 Markup Languages

This section is about markup languages.

1.2.1 First Use

LaTeX, markdown, extensible hypertext markup language (XHTML), mathematical markup language (MathML), scalable vector graphics (SVG).

1.2.2 Next Use

LaTeX, markdown, XHTML, MathML, SVG.

1.3 Vegetables

This section is about vegetables. Cabbage, Brussels sprout, artichoke, cauliflower, courgette, spinach.

1.4 Minerals

This section is about minerals. Beryl, amethyst, chalcedony, aquamarine, aragonite, calcite, bîlínite, cyanotrichite, biotite, dolomite, quetzalcoatlite, vulcanite.
1.5 Animals

This section is about animals. Duck, parrot, hedgehog, sea lion, zander, aardvark, zebra, swan, armadillo.

1.6 Chemicals

This section is about chemical formulae. \( \text{Al}_2\text{(SO}_4\text{)}_3 \) (aluminium sulfate), \( \text{H}_2\text{O} \) (water), \( \text{C}_6\text{H}_12\text{O}_6 \) (glucose), \( \text{CH}_3\text{CH}_2\text{OH} \) (ethanol), \( \text{CH}_3\text{O} \) (formaldehyde), \( \text{OF}_2 \) (oxygen difluoride), \( \text{O}_2\text{F}_2 \) (dioxygen difluoride), \( \text{SO}_4^{2-} \) (sulfate), \( \text{H}_3\text{O}^+ \) (hydronium), \( \text{OH}^- \) (hydroxide ion), \( \text{O}_2 \) (oxygen), \( \text{Al}_2\text{CoO}_4 \) (cobalt blue), \( \text{As}_4\text{S}_4 \) (tetraarsenic tetrasulfide), \( \text{C}_{10}\text{H}_{10}\text{O}_4 \) (ferulic acid), \( \text{C}_5\text{H}_4\text{NCOOH} \) (niacin), \( \text{C}_8\text{H}_{10}\text{N}_4\text{O}_2 \) (also known as \( \text{C}_8\text{H}_{10}\text{N}_4\text{O}_2 \)), \( \text{SO}_2 \) (sulfur dioxide), \( \text{S}_2\text{O}_7^{2-} \) (also known as \( \text{S}_2\text{O}_7^{2-} \)), \( \text{SbBr}_3 \) (antimony(III) bromide), \( \text{Sc}_2\text{O}_3 \) (scandium oxide), \( \text{Zr}_3\text{(PO}_4\text{)}_4 \) (zirconium phosphate), \( \text{ZnF}_2 \) (zinc fluoride).

1.7 SI Units

Base SI units: \( \text{A} \) (measures electric current), \( \text{kg} \) (measures mass), \( \text{m}, \text{s}, \text{K}, \text{mol}, \text{cd} \).

Derived SI units: \( \text{m}^2 \), \( \text{m}^3 \), \( \text{m}^{-1} \), \( \text{m}^{-2} \), \( \text{A} \text{m}^{-2} \), \( \text{cd} \text{m}^{-2} \), \( \text{m}^3 \text{kg}^{-1} \), \( \text{mol} \text{m}^{-3} \), \( \text{m}^{-1} \).

1.8 Books and Films

Books: *A Tale of Two Cities* (by Charles Dickens), *The Big Sleep* (by Raymond Chandler, film adaptation: *The Big Sleep*), *Ice Cold in Alex* (by Christopher Landon, film adaptation: *Ice Cold in Alex*), *Why Didn’t They Ask Evans?* (by Agatha Christie (Lady Mallowan), film adaptation: *Why Didn’t They Ask Evans?*), *Do Androids Dream of Electric Sheep?* (by Philip K. Dick, inspired the film *Blade Runner*).


1.9 Miscellaneous Symbols

1.9.1 First Use

Media controls: ▶ (play), ▶▶ (next track), ▶▶▶ (back to start of track), ↩ (rewind).

Information: ☺ (bicycle route), ☕ (café), ☘ (information centre), ♂ (Gents), ♀ (Ladies), ⚽ (football stadium), ☕ (recycling centre).

Weather: ☁ (cloudy), ☀ (foggy), ℃ (hail), ☀ (sunny), ⚡ (thunderstorm).
1.9.2 Next Use

Media controls: ▶, ◁, ◀, ◄, ◄.

Information: ℃, ℃, ◆, ◆, ◆, ◆.

Weather: ☁, ☁, ☁, ☁, ☁, ☁.

1.10 Measurements

Measurements: electric current, area, length.
2 Glossaries

Bacteria

\textit{B. subtilis} Bacillus subtilis.  
\textit{C. botulinum} Clostridium botulinum.  
\textit{C. burnetii} Coxiella burnetii.  
\textit{C. perfringens} Clostridium perfringens.  
\textit{C. tetani} Clostridium tetani.  
\textit{P. composti} Planifilum composti.  
\textit{P. fimeticola} Planifilum fimeticola.  
\textit{P. putida} Pseudomonas putida.  
\textit{R. australis} Rickettsia australis.  
\textit{R. rickettsii} Rickettsia rickettsii.

Markup Languages

\textbf{HTML (hypertext markup language)}

The standard markup language for creating web pages.

\textbf{\LaTeX}

A format of \textit{\LaTeX} designed to separate content from style.

\textbf{markdown}

A lightweight markup language with plain text formatting syntax.

\textbf{MathML (mathematical markup language)}

Markup language for describing mathematical notation.

\textbf{SVG (scalable vector graphics)}

XML-based vector image format.

\textbf{\TeX}

A format for describing complex type and page layout often used for mathematics, technical, and academic publications.

\textbf{XHTML (extensible hypertext markup language)}

XML version of HTML.
XML (extensible markup language)

A markup language that defines a set of rules for encoding documents.

Vegetables

artichoke a variety of thistle cultivated as food.
Brussels sprout small leafy green vegetable buds.
cabbage vegetable with thick green or purple leaves.
cauliflower type of cabbage with edible white flower head.
courgette immature fruit of a vegetable marrow.
marrow long white-fleshed gourd with green skin.
spinach green, leafy vegetable.

Minerals

A

amethyst purple variety of quartz.
aquamarine light blue variety of beryl.
aragonite a crystal form of calcium carbonate.

B

beryl composed of beryllium aluminium cyclosilicate.
bifinite an iron sulfate mineral.
biotite a common phyllosilicate mineral.

C

calcite a crystal form of calcium carbonate.
chalcedony cryptocrystalline variety of quartz.
cyanotrichite a hydrous copper aluminium sulfate mineral.

D

dolomite an anhydrous carbonate mineral.

Q

quartz hard mineral consisting of silica.
quetzalcoatlite a rare tellurium oxysalt mineral.

V

vulcanite a rare copper telluride mineral.
Animals

*aardvark* nocturnal African burrowing mammal.  
*armadillo* nocturnal insectivore with large claws.  

duck a waterbird with webbed feet.  
*hedgehog* small nocturnal mammal with a spiny coat and short legs.  
*parrot* mainly tropical bird with bright plumage.  
*sea lion* a large type of *seal*.  
*seal* sea-dwelling fish-eating mammal with flippers.  
*swan* a large waterbird with a long flexible neck, short legs, webbed feet and a broad bill.  
*zander* large freshwater perch.  
*zebra* wild African horse with black-and-white stripes.

People

*Dame Agatha Mary Clarissa Christie (Lady Mallowan)* English crime novelist and playwright (15th September 1890 – 12th January 1976).  
*Charles Dickens* English writer and social critic (7th February 1812 – 9th June 1870).  
*Christopher Guy Landon* British novelist and screenwriter (29th March 1911 – 26th April 1961).  

Books

*The Big Sleep* novel by Raymond Chandler.  
*Do Androids Dream of Electric Sheep?* novel by Philip K. Dick.  
*The Hobbit* novel by J.R.R. Tolkien.  
*Ice Cold in Alex* novel by Christopher Landon.  
*A Tale of Two Cities* novel by Charles Dickens.  
*Why Didn’t They Ask Evans?* novel by Agatha Christie.
Films

*The Big Sleep* A film based on the novel *The Big Sleep* (released 1946) featuring Humphrey Bogart & Lauren Bacall.


*Ice Cold in Alex* A film based on the novel *Ice Cold in Alex* (released 1958) featuring John Mills, Anthony Quayle & Sylvia Sims.


Chemical Formula

| A | \( \text{AlF}_3 \) | aluminium trifluoride. |
|   | \( \text{Al}_2(\text{SO}_4)_3 \) | aluminium sulfate. |
|   | \( \text{Al}_2\text{CoO}_4 \) | cobalt blue. |
|   | \( \text{As}_4\text{S}_4 \) | tetraarsenic tetrasulfide. |
| C | \( \text{CH}_2\text{O} \) | formaldehyde. |
|   | \( \text{CH}_3\text{CH}_2\text{OH} \) | ethanol. |
|   | \( \text{C}_5\text{H}_4\text{NCOOH} \) | niacin. |
|   | \( \text{C}_6\text{H}_{12}\text{O}_6 \) | glucose. |
|   | \( \text{C}_8\text{H}_{10}\text{N}_4\text{O}_2 \) | caffeine. |
|   | \( \text{C}_{10}\text{H}_{10}\text{O}_4 \) | ferulic acid. |
| H | \( \text{H}_2\text{O} \) | water. |
|   | \( \text{H}_3\text{O}^+ \) | hydronium. |
| O | \( \text{OF}_2 \) | oxygen difluoride. |
|   | \( \text{OH}^- \) | hydroxide ion. |
|   | \( \text{O}_2 \) | dioxygen. |
|   | \( \text{O}_2\text{F}_2 \) | dioxygen difluoride. |
| S | \( \text{SO}_2 \) | sulfur dioxide. |
|   | \( \text{SO}_4^{2-} \) | sulfate. |
|   | \( \text{S}_2\text{O}_7^{2-} \) | disulfate ion. |
|   | \( \text{SbBr}_3 \) | antimony(III) bromide. |
|   | \( \text{Sc}_2\text{O}_3 \) | scandium oxide. |
| Z | \( \text{ZnF}_2 \) | zinc fluoride. |
|   | \( \text{Zr}_3(\text{PO}_4)_4 \) | zirconium phosphate. |
Measurements

- **acceleration**: metre per second squared (m s\(^{-2}\)).
- **amount of substance**: mole (mol).
- **area**: square metre (m\(^2\)).
- **concentration**: mole per cubic metre (mol m\(^{-3}\)).
- **density**: ampere per square metre (A m\(^{-2}\)).
- **electric current**: ampere (A).
- **length**: metre (m).
- **luminance**: candela per square metre (cd m\(^{-2}\)).
- **luminous intensity**: candela (cd).
- **mass**: kilogram (kg).
- **specific volume**: cubic metre per kilogram (m\(^3\) kg\(^{-1}\)).
- **thermodynamic temperature**: kelvin (K).
- **time**: second (s).
- **velocity**: metre per second (m s\(^{-1}\)).
- **volume**: cubic metre (m\(^3\)).
- **wave number**: per metre (m\(^{-1}\)).

**SI Units**

- A (ampere).
- cd (candela).
- K (kelvin).
- kg (kilogram).
- m (metre).
- mol (mole).
- s (second).

**Information Symbols**

- Bicycle route.
- Café.
- Football stadium.
- Gents.
- Information centre.
- Ladies.
- Recycling centre.
- Wheelchair access provided.
Media Control Symbols

- back to start of track.
- next track.
- play.
- rewind.

Weather Symbols

- cloudy.
- foggy.
- hail.
- sunny.
- thunderstorm.
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