

1 Sample

1.1 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

1.2.1 First Use

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

1.2.2 Next Use

L^AT_EX, markdown, XHTML, MathML, SVG.

1.3 Vegetables

cabbage, Brussels sprout, artichoke, cauliflower, courgette, spinach.

1.4 Minerals

Beryl, amethyst, chalcedony, aquamarine, aragonite, calcite, b_{il}inite, cyanotrichite, biotite, dolomite, quetzalcoatlite, vulcanite.

1.5 Animals

Duck, parrot, hedgehog, sea lion.

1.6 Chemicals

$\text{Al}_2(\text{SO}_4)_3$, H_2O , $\text{C}_6\text{H}_{12}\text{O}_6$, $\text{CH}_3\text{CH}_2\text{OH}$, CH_2O , OF_2 , O_2F_2 , SO_4^{2-} , H_3O^+ , OH^- , O_2 , AlF_3 , O , Al_2CoO_4 , As_4S_4 , $\text{C}_{10}\text{H}_{10}\text{O}_4$, $\text{C}_5\text{H}_4\text{NCOOH}$, $\text{C}_8\text{H}_{10}\text{N}_4\text{O}_2$, SO_2 , $\text{S}_2\text{O}_7^{2-}$, SbBr_3 , Sc_2O_3 , $\text{Zr}_3(\text{PO}_4)_4$, ZnF_2 .

1.7 SI Units

Base: A, kg, m, s, K, mol, cd. Derived: m^2 , m^3 , m s^{-1} , m s^{-2} , A m^{-2} , cd m^{-2} , $\text{m}^3 \text{kg}^{-1}$, mol m^{-3} , m^{-1} .

Glossaries

Bacteria

B. subtilis *Bacillus subtilis*.

C. botulinum *Clostridium botulinum*.

C. burnetii *Coxiella burnetii*.

C. perfringens *Clostridium perfringens*.

C. tetani *Clostridium tetani*.

P. composti *Planifilum composti*.

P. fimeticola *Planifilum fimeticola*.

P. putida *Pseudomonas putida*.

R. australis *Rickettsia australis*.

R. rickettsii *Rickettsia rickettsii*.

Markup Languages

HTML (hypertext markup language)

The standard markup language for creating web pages.

LaTeX

A format of TeX designed to separate content from style.

markdown

A lightweight markup language with plain text formatting syntax.

MathML (mathematical markup language)

Markup language for describing mathematical notation.

SVG (scalable vector graphics)

XML-based vector image format.

TeX

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

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.

bálinite 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

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.

Chemical Formula

A

$\text{Al}_2(\text{SO}_4)_3$	aluminium sulfate.
Al_2CoO_4	cobalt blue.
AlF_3	aluminium trifluoride.
As_4S_4	tetraarsenic tetrasulfide.

C

CH_2O	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

H_2O	water.
H_3O^+	hydronium.

O

O	oxygen.
OF_2	oxygen difluoride.
OH^-	hydroxide ion.
O_2	dioxygen.
O_2F_2	dioxygen difluoride.

S

SO_2	sulfur dioxide.
SO_4^{2-}	sulfate.
$\text{S}_2\text{O}_7^{2-}$	disulfate ion.
SbBr_3	antimony(III) bromide.
Sc_2O_3	scandium oxide.

Z

ZnF_2	zinc fluoride.
$\text{Zr}_3(\text{PO}_4)_4$	zirconium phosphate.

SI Units

A (ampere) electric current.

cd (candela) luminous intensity.

K (kelvin) thermodynamic temperature.

kg (kilogram) mass.

m (metre) length.

mol (mole) amount of substance.

s (second) time.

Derived Units

A m^{-2} (ampere per square metre) density.

cd m^{-2} (candela per square metre) luminance.

m s^{-2} (metre per second squared) acceleration.

m s^{-1} (metre per second) velocity.

m^{-1} (per metre) wave number.

m^2 (square metre) area.

m^3 (cubic metre) volume.

$\text{m}^3 \text{kg}^{-1}$ (cubic metre per kilogram) specific volume.

mol m^{-3} (mole per cubic metre) concentration.

Index

A

aluminium sulfate, $\text{Al}_2(\text{SO}_4)_3$, 2, 5
aluminium trifluoride, AlF_3 , 2, 5
amethyst, 1, 4
ampere (A), 2, 5
ampere per square metre (A m^{-2}), 2, 6
antimony(III) bromide, SbBr_3 , 2, 5
aquamarine, 1, 4
aragonite, 1, 4
artichoke, 1, 4

B

Bacillus subtilis, 1, 3
beryl, 1, 4
bálinite, 1, 4
biotite, 1, 4
Brussels sprout, 1, 4

C

cabbage, 1, 4
caffeine, $\text{C}_8\text{H}_{10}\text{N}_4\text{O}_2$, 2, 5
calcite, 1, 4
candela (cd), 2, 5
candela per square metre (cd m^{-2}), 2, 6
cauliflower, 1, 4
chalcedony, 1, 4
Clostridium botulinum, 1, 3
Clostridium perfringens, 1, 3
Clostridium tetani, 1, 3
cobalt blue, Al_2CoO_4 , 2, 5
courgette, 1, 4
Coxiella burnetii, 1, 3
cubic metre (m^3), 2, 6
cubic metre per kilogram ($\text{m}^3 \text{kg}^{-1}$), 2, 6
cyanotrichite, 1, 4

D

dioxygen, O_2 , 2, 5
dioxygen difluoride, O_2F_2 , 2, 5
disulfate ion, $\text{S}_2\text{O}_7^{2-}$, 2, 5
dolomite, 1, 4
duck, 1, 5

E

ethanol, $\text{CH}_3\text{CH}_2\text{OH}$, 2, 5
extensible hypertext markup language
(XHTML), 1, 3
extensible markup language (XML), 3, 4

F

ferulic acid, $\text{C}_{10}\text{H}_{10}\text{O}_4$, 2, 5
formaldehyde, CH_2O , 2, 5

G

glucose, $\text{C}_6\text{H}_{12}\text{O}_6$, 2, 5

H

hedgehog, 1, 5
hydronium, H_3O^+ , 2, 5
hydroxide ion, OH^- , 2, 5
hypertext markup language (HTML), 3

K

kelvin (K), 2, 5
kilogram (kg), 2, 5

L

L^AT_EX, 1, 3
lettsomite, *see* cyanotrichite

M

markdown, 1, 3

marrow, [4](#)

mathematical markup language
(MathML), [1](#), [3](#)

metre (m), [2](#), [5](#)

metre per second (m s^{-1}), [2](#), [6](#)

metre per second squared (m s^{-2}), [2](#), [6](#)

mole (mol), [2](#), [6](#)

mole per cubic metre (mol m^{-3}), [2](#), [6](#)

N

niacin, $\text{C}_5\text{H}_4\text{NCOOH}$, [2](#), [5](#)

O

oxygen, O, [2](#), [5](#)

oxygen difluoride, OF_2 , [2](#), [5](#)

P

parrot, [1](#), [5](#)

per metre (m^{-1}), [2](#), [6](#)

Planifilum composti, [1](#), [3](#)

Planifilum fimeticola, [1](#), [3](#)

Pseudomonas putida, [1](#), [3](#)

Q

quartz, [4](#)

quetzalcoatlite, [1](#), [4](#)

R

Rickettsia australis, [1](#), [3](#)

Rickettsia rickettsii, [1](#), [3](#)

S

scalable vector graphics (SVG), [1](#), [3](#)

scandium oxide, Sc_2O_3 , [2](#), [5](#)

sea lion, [1](#), [5](#)

seal, [5](#)

second (s), [2](#), [6](#)

spinach, [1](#), [4](#)

square metre (m^2), [2](#), [6](#)

sulfate, SO_4^{2-} , [2](#), [5](#)

sulfur dioxide, SO_2 , [2](#), [5](#)

T

tetraarsenic tetrasulfide, As_4S_4 , [2](#), [5](#)

TeX, [3](#)

V

vulcanite, [1](#), [4](#)

W

water, H_2O , [2](#), [5](#)

Z

zinc fluoride, ZnF_2 , [2](#), [5](#)

zirconium phosphate, $\text{Zr}_3(\text{PO}_4)_4$, [2](#), [5](#)

zucchini, *see* [courgette](#)