

# 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

`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

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

## 1.4 Minerals

Beryl, amethyst, chalcedony, aquamarine, aragonite, calcite, biminite, cyanotrichite, biotite, dolomite, quetzalcoatlite, vulcanite.

## 1.5 Animals

Duck, parrot, hedgehog, sea lion.

## 1.6 Chemicals

Al2(SO4)3, H2O, C6H12O6, CH3CH2OH, CH2O, OF2, O2F2, SO4^2-, H3O^+, OH^-, O2, AlF3, O, Al2CoO4, As4S4, C10H10O4, C5H4NCOOH, C8H10N4O2, SO2, S2O7^2-, SbBr3, Sc2O3, Zr3(PO4)4, ZnF2.

## 1.7 SI Units

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

# Glossaries

## Bacteria

<i>B. subtilis</i>	<i>Bacillus subtilis</i> .	<i>P. composti</i>	<i>Planifilum composti</i> .
<i>C. botulinum</i>	<i>Clostridium botulinum</i> .	<i>P. fimeticola</i>	<i>Planifilum fimeticola</i> .
<i>C. burnetii</i>	<i>Coxiella burnetii</i> .	<i>P. putida</i>	<i>Pseudomonas putida</i> .
<i>C. perfringens</i>	<i>Clostridium perfringens</i> .	<i>R. australis</i>	<i>Rickettsia australis</i> .
<i>C. tetani</i>	<i>Clostridium tetani</i> .	<i>R. rickettsii</i>	<i>Rickettsia rickettsii</i> .

## 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)

The standard markup language for creating web pages.

### 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**

**bakerite** a borosilicate mineral.  
**beryl** composed of beryllium aluminium cyclosilicate.  
**bíinite** an iron sulfate mineral.  
**biotite** a common phyllosilicate mineral.

### **C**

**calcite** a crystal form of calcium carbonate.  
**chalcedony** cryptocrystalline variety of **quartz**.  
**citrine** yellow variety of **quartz**.  
**cobaltite** a sulfide mineral composed of cobalt, arsenic and sulfur.  
**corundum** crystalline form of aluminium oxide.  
**cyanotrichite** a hydrous copper aluminium sulfate mineral.

### **D**

**diamond** a metastable allotrope of carbon.  
**dolomite** an anhydrous carbonate mineral.

### **Q**

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

### **V**

**vaterite** a crystal form of calcium carbonate.  
**vulcanite** a rare copper telluride mineral.

## Animals

**aardvark** nocturnal African burrowing mammal.

**armadillo** nocturnal insectivore with large claws.

**chicken** a domestic fowl.

**duck** a waterbird with webbed feet.

**goose** a large waterbird with a long neck, short legs, webbed feet and a short broad bill.

**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.

## Chemical Formula

### A

$\text{Al}_2(\text{SO}_4)_3$	aluminium sulfate.
$\text{Al}_2\text{CoO}_4$	cobalt blue.
$\text{AlF}_3$	aluminium trifluoride.
$\text{As}_4\text{S}_4$	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.

### O

O	oxygen.
$\text{OF}_2$	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.

### H

$\text{H}_2\text{O}$	water.
$\text{H}_3\text{O}^+$	hydronium.

### Z

$\text{ZnF}_2$	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

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

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

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

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

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

$\text{m}^2$  (square metre) area.

$\text{m}^3$  (cubic metre) volume.

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

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

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