

Englist.me



Vocabulary Builder Reference from...

Lou Serico: The genius of Mendeleev's periodic table
| TED Talk

https://www.ted.com/talks/lou_serico_the_genius_of_mendeleev_s_periodic_table

All Words

IMPORTANT

This material is a commentary and does not contain any copyrighted material of the reference source. We strongly recommend accessing/buying the reference source at the same time.

Session 1: Word List

periodic

adj. happening at regular intervals over a while

synonym: regular, frequent, recurring

(1) the **periodic** blooming of the cherry-blossom,

(2) **periodic** payments

Astronomers are examining whether the **periodic** signals emanating from this star are artificial.

instantly

adv. immediately

synonym: immediately, right away, directly

(1) **instantly** cope with, (2) be killed **instantly**

I remembered that person **instantly** and never forgot.

recognizable

adj. easy to become aware of or identify

synonym: noticeable, perceptible, definite

(1) to a **recognizable** degree, (2) **recognizable** landmark

His car was easily **recognizable** in the parking lot.

chemistry

n. the branch of the natural sciences dealing with the composition of substances and their properties and reactions

(1) professor of **chemistry**, (2) the **chemistry** of soil

He is familiar with **chemistry** and biology.

- lab** *n.* a workplace for the conduct of scientific research; a laboratory
synonym: workshop, laboratory, research chamber
(1) **lab** instrument, (2) medical **lab**
The Prime Minister will pay a courtesy visit to the Nobel laureate's **lab**.
- trend** *n.* a general direction in which something is changing or developing
synonym: direction, movement, tendency
(1) an international **trend**, (2) the **trend** away from television
The oil price continued their downward **trend**.
- icon** *n.* a picture or statue of a holy person considered to be a sacred thing; a little icon on the screen of a computer or smartphone that denotes an application or a file
synonym: figure, hero, idol
(1) **icon** for young people, (2) television **icon**
Some comic book characters are considered gay **icons**.
- massive** *adj.* enormous amount; very heavy and solid
synonym: enormous, giant, immense
(1) **massive** amounts, (2) **massive** stars
The recent economic downturn has resulted in **massive** layoffs.
- slab** *n.* a flat, rectangular piece of material, such as wood or concrete; often used to describe a large, heavy, or solid object or structure
synonym: slate, tile, paving stone
(1) a **slab** of chocolate, (2) marble **slab**
The construction workers poured a large **slab** of concrete for the foundation of the building.
- genius** *n.* someone who has exceptional intellectual ability and originality
synonym: brilliance, brainiac, acumen

(1) a person of **genius**, (2) a **genius** for music
Mozart was a musical **genius**.

bonafide

adj. genuine or real; describing something or someone that is genuinely what they claim to be and can be trusted or accepted as true or authentic

synonym: genuine, authentic, legitimate

(1) **bonafide** employee, (2) **bonafide** agreement

She had a **bonafide** talent for singing, evident by her numerous awards and performances.

comprehensive

adj. complete and including all or everything necessary

synonym: complete, encyclopedic, thorough

(1) a **comprehensive** explanation, (2) conduct a **comprehensive** survey

We have a **comprehensive** grasp of this topic.

spot

n. a particular location or place; a small round or roundish area, differing in color or feels from the surface around it

synonym: dot, mark, place

(1) beauty **spot**, (2) a **spot** on his honor

This remote **spot** is rarely visited.

arrange

v. to plan, prepare for, and carry out something

synonym: set up, order, organize

(1) **arrange** the meeting, (2) the list was **arranged** alphabetically

I need to **arrange** plans with him for the celebration.

symbol

n. something visible that is used to represent something else

synonym: mark, character, insignia

(1) **symbol** color, (2) **symbol** for happiness

The dragon is considered a **symbol** of bravery.

column

n. one of the vertical blocks that split content on a page or screen from top to bottom; an upright pillar that often supports an arch, entablature, or other structure or stands alone as a monument

synonym: line, pillar, cue

(1) the spinal **column**, (2) a **column** of water

The newspaper devoted several **columns** to the affair.

row

n. an arrangement of objects or people side by side in a line; (verb) to propel a boat through the water using oars

synonym: line, sequence, layer

(1) criminal on death **row**, (2) a **row** of cherry trees

He was the leader of the demonstrators and spoke out against the war in the front **row**.

unassuming

adj. not arrogant, bold, or forward

synonym: diffident, humble, modest

(1) **unassuming** appearance, (2) an **unassuming** fashion

His **unassuming** manner concealed his ambition.

placeholder

n. a temporary or substitute element or object used to mark a position, space, or value, typically to be replaced or filled in with the correct or finalized content at a later time; a temporary member of a team or a temporary solution

synonym: temporary, substitute, fill-in

(1) data **placeholder**, (2) **placeholder** image

The **placeholders** in the presentation allowed for easy customization of the information.

brilliance

n. the quality of being very clever or talented; the quality of being very bright or shining

synonym: splendor, glory, luster

(1) **brilliance** of diamond, (2) economic **brilliance**

The scientist's **brilliance** led to many groundbreaking discoveries in his field.

bold

adj. brave, daring, and confident; not frightened of danger or afraid to say what you feel or to take risks

synonym : brave, courageous, fearless

(1) a **bold** design, (2) big, **bold** piano sounds

The effort to alleviate climate change needs **bold** action.

paraphrase

v. to restate or reword a passage in one's own words, often to clarify or simplify the original meaning

synonym : rephrase, reword, reinterpret

(1) **paraphrase** a poem into prose, (2) **paraphrase** the meaning

He **paraphrased** the article in his own words to avoid being accused of plagiarism.

discovery

n. the act or process of finding information, a place, or an object, or learning about something that was previously not known

synonym : finding, uncovering, detection

(1) a scientific **discovery**, (2) the great **discovery** of the century

Her research team made an important **discovery**.

meantime

n. the interval or period of time between two events; the interim or temporary time period between two actions or stages of something else

synonym : interim, meanwhile, lag

(1) **meantime** report, (2) for the **meantime**

In the **meantime**, while we wait for the results, let's start working on the next project.

aluminum

n. a chemical element with the symbol Al that visually resembles silver, used especially for making cooking equipment and aircraft parts

(1) a layer of **aluminum** foil, (2) an **aluminum** alloy

Some of the parts of this car are made of **aluminum** to reduce weight.

Sanskrit

n. an ancient language of India and an important sacred language in Hinduism, Buddhism, and Jainism; used as a scholarly and literary language in South Asia for thousands of years

(1) **Sanskrit** language, (2) **Sanskrit** literature

Some Indian classical dances and music are based on **Sanskrit** scriptures and texts.

locate

v. to specify or determine the exact position of someone or something

synonym : discover, find, place

(1) **locate** a missing pet, (2) **locate** a tumor

The robot can accurately **locate** construction material.

atom

n. the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus

synonym : particle, element, fraction

(1) oxygen **atom**, (2) neutral hydrogen **atoms**

The outermost electron shell of an **atom** determines its chemical characteristics.

atomic

adj. of or relating to atom (= the smallest component of an element)

synonym : tiny, microscopic, nuclear

(1) **atomic** nucleus, (2) **atomic** bomb

Carbon has an **atomic** mass of 12.

hydrogen

n. the chemical element that is the lightest gas is colorless, odorless, tasteless, and combines with oxygen to form water

(1) **hydrogen** gas, (2) heavy **hydrogen**

The **hydrogen** and the oxygen react and then form water.

isolate

v. to physically or socially separate someone or something from other people or things

synonym : separate, sequester, insulate

(1) **isolate** a compound, (2) **isolate** a patient
You should not **isolate** them from the community.

solid

adj. hard or firm; characterized by good substantial quality
synonym: stable, reliable, hard

(1) **solid** ally, (2) **solid** employment measures
The **solid-state** of water is called ice.

temperature

n. the degree of hotness or coldness of a thing or place
synonym: climate, warmth, degree

(1) extreme **temperatures**, (2) the atmospheric
temperature

Cities around the world set records for highest **temperatures**
this summer.

shiny

adj. reflecting light and having a bright and smooth surface
synonym: polished, glossy, lustrous

(1) **shiny** surface, (2) **shiny** object

The **shiny** new car drew everyone's attention as it drove by.

conduct

v. to organize and carry out a particular activity
synonym: behave, lead, carry on

(1) **conduct** a background check, (2) **conduct** research
Police will **conduct** random breath testing for drunk driving.

stretch

v. to make or be capable of making anything longer or
broader without hurting or breaking
synonym: lengthen, prolong, extend

(1) **stretch** along the coast, (2) **stretch** a story
Some herds have been observed to **stretch** hundreds of
kilometers.

melt

v. to turn from something solid into something soft or liquid
as a result of heating
synonym: disintegrate, soften, disappear

(1) **melt** the ice, (2) **melt** down gold

Her resistance **melted** under his persuasion.

freak

n. an abnormality that is not typical or expected
synonym: anomaly, deviation, oddity

(1) a rock **freak**, (2) **freak** weather

The **freak** accident caused the car to flip over and land on its roof.

cubic

adj. having the shape of a cube or being of three dimensions; measured in units that are the third power of a linear unit

synonym: three-dimensional, boxlike, cubical

(1) **cubic** meter, (2) **cubic** structure

The package was a **cubic** shape, which made it easier to stack on the shelf.

centimeter

n. a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter

(1) **centimeter** measurement, (2) thirty **centimeters** tall

The room was only one **centimeter** wider than the piano, making it a tight fit.

weigh

v. to have a particular weight; to carefully evaluate things before making a conclusion

synonym: consider, cogitate, count

(1) **weigh** heavily on stock prices, (2) **weigh** a cargo

The baby **weighs** 1 pound 3 oz.

gram

n. a metric unit of weight equal to one-thousandth of a kilogram

(1) centimeter- **gram-second** system, (2) **gram** amount

How much is it per one hundred **grams**?

predict

v. to state beforehand that something will happen in the future, mainly based on knowledge or experience

synonym: forecast, anticipate, foresee

(1) **predict** the future, (2) **predict** when she will arrive
It's notoriously challenging to **predict** birth rates.

blank

adj. without any writing or printing; empty or devoid of ideas, information, or meaning; unable to remember or recall information

synonym : empty, void, barren

(1) **blank** expression, (2) **blank** paper

The computer screen displayed nothing but a **blank** white screen

surrounding

adj. that is near or around, or closely encircling something

synonym : circumferent, encircling, neighboring

(1) **surrounding** areas, (2) a fence **surrounding** a castle

The **surrounding** mountains make the city difficult to be invaded.

prediction

n. the act of predicting the future by reasoning; a statement made about the future

synonym : forecast, anticipation, foretelling

(1) make my **predictions**, (2) gloomy **predictions**

These results muddied the **prediction**.

gall

n. rudeness and the inability to understand that one's conduct or words are not acceptable to others; a feeling of deep and bitter anger and ill-will

synonym : bitterness, boldness, vexation

(1) **gall** and wormwood, (2) have the **gall**

He sometimes recalls **gall** past mistakes.

historic

adj. famous or significant in history, or potentially so

synonym : memorable, momentous, historical

(1) **historic** accomplishment, (2) achieve the **historic** feat

The Chinese people have accomplished several **historic** feats.

paltry

adj. lacking in importance, value, or quality; insignificant; meager or inadequate

synonym : insignificant, worthless, meager

(1) **paltry** sum, (2) **paltry** excuse

After working long hours for a **paltry** paycheck, the employee began to search for a new job.

degree

n. a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment

synonym : level, qualification, diploma

(1) bachelor's **degree**, (2) **degree** centigrade

She received her **degree** in psychology from the university.

nail

n. a thin, pointed piece of metal with a flat head used for fastening things together; the thin hard layer covering and protecting the outer tip of the fingers or toes

synonym : pin, tack, fastener

(1) rusty **nail**, (2) **nail** clipper

He used a hammer and round **nail** to fix the loose board on the fence.

scandium

n. a silver-white metallic element with the atomic number 21 and the symbol Sc that has a high melting point and is used in the production of high-intensity light bulbs and the aerospace industry

synonym : Sc

(1) **scandium** chloride, (2) **scandium** oxide

The use of **scandium** alloys enhances the performance of sports equipment.

germanium

n. a chemical element with the symbol Ge and atomic number 32, which is a hard and grayish-white metalloid used in a variety of electronic applications, alloys, and as a semiconductor in transistors and other devices

synonym : Ge

(1) **germanium** crystal, (2) **germanium** diode

Germanium-based solar cells are highly efficient and often used in space technology.

rhodium

n. a rare metallic element with the atomic number 75 and the symbol Re that is silvery-white in color and has a very high melting point, often used in the production of filaments for electrical devices and catalysts for chemical reactions

synonym : Re

(1) **rhodium** catalyst, (2) **rhodium** isotopes

The **rhodium** alloy used in jet engines can withstand extremely high temperatures.

manganese

n. a chemical element with the symbol Mn and atomic number 25, commonly used in steel production and other alloys

synonym : Mn

(1) **manganese** nodules, (2) **manganese** steel

Manganese dioxide is used as a catalyst in some chemical reactions.

technetium

n. a radioactive metallic element with the atomic number 43 and the symbol Tc that has no stable isotopes and is used in medical imaging procedures and as a tracer in various scientific studies

synonym : Tc

(1) **technetium** scan, (2) **technetium-99m** tracer

Due to its radioactive nature, handling **technetium** materials requires strict safety protocols.

synthesize

v. to combine a substance to make a more complex product or compound

synonym : incorporate, amalgamate

(1) **synthesize** molecules, (2) **synthesize** information

The spider can **synthesize** multiple different silk proteins.

cyclotron

n. a type of particle accelerator used to produce high-energy, charged particles for medical, scientific, or industrial purposes, often used in medical imaging or radiation therapy

synonym : particle accelerator, atom smasher

(1) **cyclotron-produced** radiotracers, (2) medical **cyclotron**

The **cyclotron** facility at the university is one of the most advanced in the country.

exclusive

adj. not divided or shared with others

synonym : sole, deluxe, limited

(1) **exclusive** authority, (2) **exclusive** clubs

The condo offers **exclusive** access to the beach.

undiscovered

adj. not yet found or known

synonym : unknown, hidden, unexplored

(1) **undiscovered** territory, (2) **undiscovered** potential

The jungle is full of **undiscovered** species waiting to be found.

architect

n. a person whose job is to design plans to be used in making something, such as buildings

synonym : creator, designer, planner

(1) landscape **architect**, (2) **architect** of the peace accord

The building **architect** tried to build the house above the tree.

Session 2: Spelling

1. gloomy pre_____ons
n. the act of predicting the future by reasoning; a statement made about the future
2. landscape ar_____ct
n. a person whose job is to design plans to be used in making something, such as buildings
3. rh_____m isotopes
n. a rare metallic element with the atomic number 75 and the symbol Re that is silvery-white in color and has a very high melting point, often used in the production of filaments for electrical devices and catalysts for chemical reactions
4. ex_____ve authority
adj. not divided or shared with others
5. criminal on death r_w
n. an arrangement of objects or people side by side in a line; (verb) to propel a boat through the water using oars
6. l_b instrument
n. a workplace for the conduct of scientific research; a laboratory
7. g__m amount
n. a metric unit of weight equal to one-thousandth of a kilogram
8. an international tr__d
n. a general direction in which something is changing or developing
9. ma_____e amounts
adj. enormous amount; very heavy and solid
10. thirty cen_____ers tall
n. a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter

ANSWERS: 1. prediction, 2. architect, 3. rhenium, 4. exclusive, 5. row, 6. lab, 7. gram, 8. trend, 9. massive, 10. centimeter

- | | |
|-------------------------------|---|
| 11. a person of ge___s | <i>n.</i> someone who has exceptional intellectual ability and originality |
| 12. a s__t on his honor | <i>n.</i> a particular location or place; a small round or roundish area, differing in color or feels from the surface around it |
| 13. bri_____ce of diamond | <i>n.</i> the quality of being very clever or talented; the quality of being very bright or shining |
| 14. bo_____de agreement | <i>adj.</i> genuine or real; describing something or someone that is genuinely what they claim to be and can be trusted or accepted as true or authentic |
| 15. sy___l for happiness | <i>n.</i> something visible that is used to represent something else |
| 16. professor of ch_____ry | <i>n.</i> the branch of the natural sciences dealing with the composition of substances and their properties and reactions |
| 17. so__d employment measures | <i>adj.</i> hard or firm; characterized by good substantial quality |
| 18. co_____t research | <i>v.</i> to organize and carry out a particular activity |
| 19. at___c nucleus | <i>adj.</i> of or relating to atom (= the smallest component of an element) |
| 20. medical cy_____on | <i>n.</i> a type of particle accelerator used to produce high-energy, charged particles for medical, scientific, or industrial purposes, often used in medical imaging or radiation therapy |

ANSWERS: 11. genius, 12. spot, 13. brilliance, 14. bonafide, 15. symbol, 16. chemistry, 17. solid, 18. conduct, 19. atomic, 20. cyclotron

21. lo___e a missing pet *v.* to specify or determine the exact position of someone or something
22. par_____se the meaning *v.* to restate or reword a passage in one's own words, often to clarify or simplify the original meaning
23. bl__k expression *adj.* without any writing or printing; empty or devoid of ideas, information, or meaning; unable to remember or recall information
24. sur_____ng areas *adj.* that is near or around, or closely encircling something
25. a r_w of cherry trees *n.* an arrangement of objects or people side by side in a line; (verb) to propel a boat through the water using oars
26. ma_____se steel *n.* a chemical element with the symbol Mn and atomic number 25, commonly used in steel production and other alloys
27. is_____e a patient *v.* to physically or socially separate someone or something from other people or things
28. to a rec_____ble degree *adj.* easy to become aware of or identify
29. tec_____um scan *n.* a radioactive metallic element with the atomic number 43 and the symbol Tc that has no stable isotopes and is used in medical imaging procedures and as a tracer in various scientific studies
30. m__t the ice *v.* to turn from something solid into something soft or liquid as a result of heating

ANSWERS: 21. locate, 22. paraphrase, 23. blank, 24. surrounding, 25. row, 26. manganese, 27. isolate, 28. recognizable, 29. technetium, 30. melt

31. syn_____ze molecules *v.* to combine a substance to make a more complex product or compound
32. a com_____ive explanation *adj.* complete and including all or everything necessary
33. pa___y excuse *adj.* lacking in importance, value, or quality; insignificant; meager or inadequate
34. be killed in_____ly *adv.* immediately
35. we__h heavily on stock prices *v.* to have a particular weight; to carefully evaluate things before making a conclusion
36. at___c bomb *adj.* of or relating to atom (= the smallest component of an element)
37. ma_____e stars *adj.* enormous amount; very heavy and solid
38. for the me_____me *n.* the interval or period of time between two events; the interim or temporary time period between two actions or stages of something else
39. so__d ally *adj.* hard or firm; characterized by good substantial quality
40. heavy hy_____en *n.* the chemical element that is the lightest gas is colorless, odorless, tasteless, and combines with oxygen to form water
41. de___e centigrade *n.* a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment
42. co_____t a background check *v.* to organize and carry out a particular activity

ANSWERS: 31. synthesize, 32. comprehensive, 33. paltry, 34. instantly, 35. weigh, 36. atomic, 37. massive, 38. meantime, 39. solid, 40. hydrogen, 41. degree, 42. conduct

43. g__l and wormwood *n.* rudeness and the inability to understand that one's conduct or words are not acceptable to others; a feeling of deep and bitter anger and ill-will
44. is____e a compound *v.* to physically or socially separate someone or something from other people or things
45. sh__y object *adj.* reflecting light and having a bright and smooth surface
46. cu__c meter *adj.* having the shape of a cube or being of three dimensions; measured in units that are the third power of a linear unit
47. economic bri____ce *n.* the quality of being very clever or talented; the quality of being very bright or shining
48. conduct a com_____ive survey *adj.* complete and including all or everything necessary
49. rec_____ble landmark *adj.* easy to become aware of or identify
50. lo___e a tumor *v.* to specify or determine the exact position of someone or something
51. the pe____ic blooming of the cherry-blossom *adj.* happening at regular intervals over a while
52. sy___l color *n.* something visible that is used to represent something else
53. a s__b of chocolate *n.* a flat, rectangular piece of material, such as wood or concrete; often used to describe a large, heavy, or solid object or structure

ANSWERS: 43. gall, 44. isolate, 45. shiny, 46. cubic, 47. brilliance, 48. comprehensive, 49. recognizable, 50. locate, 51. periodic, 52. symbol, 53. slab

54. st____h a story *v.* to make or be capable of making anything longer or broader without hurting or breaking
55. sc____um oxide *n.* a silver-white metallic element with the atomic number 21 and the symbol Sc that has a high melting point and is used in the production of high-intensity light bulbs and the aerospace industry
56. oxygen a__m *n.* the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus
57. fr__k weather *n.* an abnormality that is not typical or expected
58. a scientific di____ry *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
59. Sa____it literature *n.* an ancient language of India and an important sacred language in Hinduism, Buddhism, and Jainism; used as a scholarly and literary language in South Asia for thousands of years
60. achieve the hi____ic feat *adj.* famous or significant in history, or potentially so
61. the tr__d away from television *n.* a general direction in which something is changing or developing
62. cu__c structure *adj.* having the shape of a cube or being of three dimensions; measured in units that are the third power of a linear unit

ANSWERS: 54. stretch, 55. scandium, 56. atom, 57. freak, 58. discovery, 59. Sanskrit, 60. historic, 61. trend, 62. cubic

63. rusty n__l *n.* a thin, pointed piece of metal with a flat head used for fastening things together; the thin hard layer covering and protecting the outer tip of the fingers or toes
64. ar____e the meeting *v.* to plan, prepare for, and carry out something
65. st____h along the coast *v.* to make or be capable of making anything longer or broader without hurting or breaking
66. neutral hydrogen a__ms *n.* the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus
67. ge____um diode *n.* a chemical element with the symbol Ge and atomic number 32, which is a hard and grayish-white metalloid used in a variety of electronic applications, alloys, and as a semiconductor in transistors and other devices
68. beauty s__t *n.* a particular location or place; a small round or roundish area, differing in color or feels from the surface around it
69. tec____um-99m tracer *n.* a radioactive metallic element with the atomic number 43 and the symbol Tc that has no stable isotopes and is used in medical imaging procedures and as a tracer in various scientific studies
70. ar____ct of the peace accord *n.* a person whose job is to design plans to be used in making something, such as buildings

ANSWERS: 63. nail, 64. arrange, 65. stretch, 66. atom, 67. germanium, 68. spot, 69. technetium, 70. architect

71. big, b__d piano sounds *adj.* brave, daring, and confident; not frightened of danger or afraid to say what you feel or to take risks
72. rh_____m catalyst *n.* a rare metallic element with the atomic number 75 and the symbol Re that is silvery-white in color and has a very high melting point, often used in the production of filaments for electrical devices and catalysts for chemical reactions
73. bachelor's de___e *n.* a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment
74. me_____me report *n.* the interval or period of time between two events; the interim or temporary time period between two actions or stages of something else
75. marble s__b *n.* a flat, rectangular piece of material, such as wood or concrete; often used to describe a large, heavy, or solid object or structure
76. a ge___s for music *n.* someone who has exceptional intellectual ability and originality
77. extreme tem_____res *n.* the degree of hotness or coldness of a thing or place
78. make my pre_____ons *n.* the act of predicting the future by reasoning; a statement made about the future
79. television i__n *n.* a picture or statue of a holy person considered to be a sacred thing; a little icon on the screen of a computer or smartphone that denotes an application or a file

ANSWERS: 71. bold, 72. rhenium, 73. degree, 74. meantime, 75. slab, 76. genius, 77. temperature, 78. prediction, 79. icon

80. a co___n of water *n.* one of the vertical blocks that split content on a page or screen from top to bottom; an upright pillar that often supports an arch, entablature, or other structure or stands alone as a monument
81. par_____se a poem into prose *v.* to restate or reword a passage in one's own words, often to clarify or simplify the original meaning
82. bo_____de employee *adj.* genuine or real; describing something or someone that is genuinely what they claim to be and can be trusted or accepted as true or authentic
83. an al_____um alloy *n.* a chemical element with the symbol Al that visually resembles silver, used especially for making cooking equipment and aircraft parts
84. syn_____ze information *v.* to combine a substance to make a more complex product or compound
85. bl__k paper *adj.* without any writing or printing; empty or devoid of ideas, information, or meaning; unable to remember or recall information
86. a rock fr__k *n.* an abnormality that is not typical or expected
87. have the g__l *n.* rudeness and the inability to understand that one's conduct or words are not acceptable to others; a feeling of deep and bitter anger and ill-will
88. ge_____um crystal *n.* a chemical element with the symbol Ge and atomic number 32, which is a hard and grayish-white metalloid used in a variety of electronic applications, alloys, and as a semiconductor in transistors and other devices

ANSWERS: 80. column, 81. paraphrase, 82. bonafide, 83. aluminum, 84. synthesize, 85. blank, 86. freak, 87. gall, 88. germanium

89. in_____ly cope with *adv.* immediately
90. the atmospheric tem_____re *n.* the degree of hotness or coldness of a thing or place
91. the spinal co___n *n.* one of the vertical blocks that split content on a page or screen from top to bottom; an upright pillar that often supports an arch, entablature, or other structure or stands alone as a monument
92. hy_____en gas *n.* the chemical element that is the lightest gas is colorless, odorless, tasteless, and combines with oxygen to form water
93. data pla_____er *n.* a temporary or substitute element or object used to mark a position, space, or value, typically to be replaced or filled in with the correct or finalized content at a later time; a temporary member of a team or a temporary solution
94. cy_____on-produced radiotracers *n.* a type of particle accelerator used to produce high-energy, charged particles for medical, scientific, or industrial purposes, often used in medical imaging or radiation therapy
95. und_____red territory *adj.* not yet found or known
96. the list was ar_____ed alphabetically *v.* to plan, prepare for, and carry out something
97. sc_____um chloride *n.* a silver-white metallic element with the atomic number 21 and the symbol Sc that has a high melting point and is used in the production of high-intensity light bulbs and the aerospace industry

ANSWERS: 89. instantly, 90. temperature, 91. column, 92. hydrogen, 93. placeholder, 94. cyclotron, 95. undiscovered, 96. arrange, 97. scandium

98. Sa_____it language *n.* an ancient language of India and an important sacred language in Hinduism, Buddhism, and Jainism; used as a scholarly and literary language in South Asia for thousands of years
99. und_____red potential *adj.* not yet found or known
100. m__t down gold *v.* to turn from something solid into something soft or liquid as a result of heating
101. pe_____ic payments *adj.* happening at regular intervals over a while
102. a fence sur_____ng a castle *adj.* that is near or around, or closely encircling something
103. we__h a cargo *v.* to have a particular weight; to carefully evaluate things before making a conclusion
104. the ch_____ry of soil *n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions
105. a layer of al_____um foil *n.* a chemical element with the symbol Al that visually resembles silver, used especially for making cooking equipment and aircraft parts
106. an una_____ng fashion *adj.* not arrogant, bold, or forward
107. ma_____se nodules *n.* a chemical element with the symbol Mn and atomic number 25, commonly used in steel production and other alloys

ANSWERS: 98. Sanskrit, 99. undiscovered, 100. melt, 101. periodic, 102. surrounding, 103. weigh, 104. chemistry, 105. aluminum, 106. unassuming, 107. manganese

108. una_____ng appearance *adj.* not arrogant, bold, or forward
109. a b__d design *adj.* brave, daring, and confident; not frightened of danger or afraid to say what you feel or to take risks
110. pla_____er image *n.* a temporary or substitute element or object used to mark a position, space, or value, typically to be replaced or filled in with the correct or finalized content at a later time; a temporary member of a team or a temporary solution
111. pr_____t the future *v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience
112. pa___y sum *adj.* lacking in importance, value, or quality; insignificant; meager or inadequate
113. pr_____t when she will arrive *v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience
114. n__l clipper *n.* a thin, pointed piece of metal with a flat head used for fastening things together; the thin hard layer covering and protecting the outer tip of the fingers or toes
115. cen_____er measurement *n.* a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
116. hi_____ic accomplishment *adj.* famous or significant in history, or potentially so
117. sh___y surface *adj.* reflecting light and having a bright and smooth surface

ANSWERS: 108. unassuming, 109. bold, 110. placeholder, 111. predict, 112. paltry, 113. predict, 114. nail, 115. centimeter, 116. historic, 117. shiny

Session 3: Fill in the Blanks

1. The robot can accurately _____ construction material.
v. to specify or determine the exact position of someone or something
2. Due to its radioactive nature, handling _____ materials requires strict safety protocols.
n. a radioactive metallic element with the atomic number 43 and the symbol Tc that has no stable isotopes and is used in medical imaging procedures and as a tracer in various scientific studies
3. She had a _____ talent for singing, evident by her numerous awards and performances.
adj. genuine or real; describing something or someone that is genuinely what they claim to be and can be trusted or accepted as true or authentic
4. Carbon has an _____ mass of 12.
adj. of or relating to atom (= the smallest component of an element)
5. These results muddied the _____.
n. the act of predicting the future by reasoning; a statement made about the future
6. The Prime Minister will pay a courtesy visit to the Nobel laureate's _____.
n. a workplace for the conduct of scientific research; a laboratory
7. His _____ manner concealed his ambition.
adj. not arrogant, bold, or forward
8. Her resistance _____ under his persuasion.
v. to turn from something solid into something soft or liquid as a result of heating

ANSWERS: 1. locate, 2. technetium, 3. bonafide, 4. atomic, 5. prediction, 6. lab, 7. unassuming, 8. melted

9. _____ dioxide is used as a catalyst in some chemical reactions.
- n.* a chemical element with the symbol Mn and atomic number 25, commonly used in steel production and other alloys
10. Cities around the world set records for highest _____ this summer.
- n.* the degree of hotness or coldness of a thing or place
11. He _____ the article in his own words to avoid being accused of plagiarism.
- v.* to restate or reword a passage in one's own words, often to clarify or simplify the original meaning
12. Police will _____ random breath testing for drunk driving.
- v.* to organize and carry out a particular activity
13. Some of the parts of this car are made of _____ to reduce weight.
- n.* a chemical element with the symbol Al that visually resembles silver, used especially for making cooking equipment and aircraft parts
14. In the _____ while we wait for the results, let's start working on the next project.
- n.* the interval or period of time between two events; the interim or temporary time period between two actions or stages of something else
15. The use of _____ alloys enhances the performance of sports equipment.
- n.* a silver-white metallic element with the atomic number 21 and the symbol Sc that has a high melting point and is used in the production of high-intensity light bulbs and the aerospace industry
16. You should not _____ them from the community.
- v.* to physically or socially separate someone or something from other people or things

ANSWERS: 9. Manganese, 10. temperatures, 11. paraphrased, 12. conduct, 13. aluminum, 14. meantime, 15. scandium, 16. isolate

17. I remembered that person _____ and never forgot.

adv. immediately

18. The effort to alleviate climate change needs _____ action.

adj. brave, daring, and confident; not frightened of danger or afraid to say what you feel or to take risks

19. Some Indian classical dances and music are based on _____ scriptures and texts.

n. an ancient language of India and an important sacred language in Hinduism, Buddhism, and Jainism; used as a scholarly and literary language in South Asia for thousands of years

20. The _____ of water is called ice.

adj. hard or firm; characterized by good substantial quality

21. His car was easily _____ in the parking lot.

adj. easy to become aware of or identify

22. The recent economic downturn has resulted in _____ layoffs.

adj. enormous amount; very heavy and solid

23. She received her _____ in psychology from the university.

n. a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment

24. He is familiar with _____ and biology.

n. the branch of the natural sciences dealing with the composition of substances and their properties and reactions

ANSWERS: 17. instantly, 18. bold, 19. Sanskrit, 20. solid-state, 21. recognizable, 22. massive, 23. degree, 24. chemistry

25. The _____ mountains make the city difficult to be invaded.
adj. that is near or around, or closely encircling something
26. The computer screen displayed nothing but a _____ white screen
adj. without any writing or printing; empty or devoid of ideas, information, or meaning; unable to remember or recall information
27. I need to _____ plans with him for the celebration.
v. to plan, prepare for, and carry out something
28. This remote _____ is rarely visited.
n. a particular location or place; a small round or roundish area, differing in color or feels from the surface around it
29. The dragon is considered a _____ of bravery.
n. something visible that is used to represent something else
30. After working long hours for a _____ paycheck, the employee began to search for a new job.
adj. lacking in importance, value, or quality; insignificant; meager or inadequate
31. The jungle is full of _____ species waiting to be found.
adj. not yet found or known
32. He was the leader of the demonstrators and spoke out against the war in the front _____.
n. an arrangement of objects or people side by side in a line; (verb) to propel a boat through the water using oars

ANSWERS: 25. surrounding, 26. blank, 27. arrange, 28. spot, 29. symbol, 30. paltry, 31. undiscovered, 32. row

33. Her research team made an important _____.
- n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
34. The scientist's _____ led to many groundbreaking discoveries in his field.
- n.* the quality of being very clever or talented; the quality of being very bright or shining
35. We have a _____ grasp of this topic.
- adj.* complete and including all or everything necessary
36. He sometimes recalls _____ past mistakes.
- n.* rudeness and the inability to understand that one's conduct or words are not acceptable to others; a feeling of deep and bitter anger and ill-will
37. How much is it per one hundred _____
- n.* a metric unit of weight equal to one-thousandth of a kilogram
38. The building _____ tried to build the house above the tree.
- n.* a person whose job is to design plans to be used in making something, such as buildings
39. Mozart was a musical _____.
- n.* someone who has exceptional intellectual ability and originality
40. It's notoriously challenging to _____ birth rates.
- v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience

ANSWERS: 33. discovery, 34. brilliance, 35. comprehensive, 36. gall, 37. grams?, 38. architect, 39. genius, 40. predict

41. _____ solar cells are highly efficient and often used in space technology.
- n.* a chemical element with the symbol Ge and atomic number 32, which is a hard and grayish-white metalloid used in a variety of electronic applications, alloys, and as a semiconductor in transistors and other devices
42. The _____ alloy used in jet engines can withstand extremely high temperatures.
- n.* a rare metallic element with the atomic number 75 and the symbol Re that is silvery-white in color and has a very high melting point, often used in the production of filaments for electrical devices and catalysts for chemical reactions
43. The _____ in the presentation allowed for easy customization of the information.
- n.* a temporary or substitute element or object used to mark a position, space, or value, typically to be replaced or filled in with the correct or finalized content at a later time; a temporary member of a team or a temporary solution
44. The spider can _____ multiple different silk proteins.
- v.* to combine a substance to make a more complex product or compound
45. The _____ accident caused the car to flip over and land on its roof.
- n.* an abnormality that is not typical or expected
46. He used a hammer and round _____ to fix the loose board on the fence.
- n.* a thin, pointed piece of metal with a flat head used for fastening things together; the thin hard layer covering and protecting the outer tip of the fingers or toes
47. The Chinese people have accomplished several _____ feats.
- adj.* famous or significant in history, or potentially so

ANSWERS: 41. Germanium-based, 42. rhenium, 43. placeholders, 44. synthesize, 45. freak, 46. nail, 47. historic

48. The condo offers _____ access to the beach.

adj. not divided or shared with others

49. Some herds have been observed to _____ hundreds of kilometers.

v. to make or be capable of making anything longer or broader without hurting or breaking

50. The construction workers poured a large _____ of concrete for the foundation of the building.

n. a flat, rectangular piece of material, such as wood or concrete; often used to describe a large, heavy, or solid object or structure

51. The newspaper devoted several _____ to the affair.

n. one of the vertical blocks that split content on a page or screen from top to bottom; an upright pillar that often supports an arch, entablature, or other structure or stands alone as a monument

52. The baby _____ 1 pound 3 oz.

v. to have a particular weight; to carefully evaluate things before making a conclusion

53. The room was only one _____ wider than the piano, making it a tight fit.

n. a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter

54. The _____ facility at the university is one of the most advanced in the country.

n. a type of particle accelerator used to produce high-energy, charged particles for medical, scientific, or industrial purposes, often used in medical imaging or radiation therapy

ANSWERS: 48. exclusive, 49. stretch, 50. slab, 51. columns, 52. weighs, 53. centimeter, 54. cyclotron

55. Astronomers are examining whether the _____ signals emanating from this star are artificial.
adj. happening at regular intervals over a while
56. Some comic book characters are considered gay _____.
n. a picture or statue of a holy person considered to be a sacred thing; a little icon on the screen of a computer or smartphone that denotes an application or a file
57. The package was a _____ shape, which made it easier to stack on the shelf.
adj. having the shape of a cube or being of three dimensions; measured in units that are the third power of a linear unit
58. The _____ new car drew everyone's attention as it drove by.
adj. reflecting light and having a bright and smooth surface
59. The _____ and the oxygen react and then form water.
n. the chemical element that is the lightest gas is colorless, odorless, tasteless, and combines with oxygen to form water
60. The outermost electron shell of an _____ determines its chemical characteristics.
n. the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus
61. The oil price continued their downward _____.
n. a general direction in which something is changing or developing

ANSWERS: 55. periodic, 56. icons, 57. cubic, 58. shiny, 59. hydrogen, 60. atom, 61. trend