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Vocabulary Builder Reference from...

Klaus Stadlmann: The world's smallest 3D printer |

TED Talk

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

[d_s_smallest_3d_printer](https://www.ted.com/talks/klaus_stadlmann_the_worl)

All Words

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Session 1: Word List

injury

n. harm done to a person's or an animal's body caused by an accident or an attack

synonym: wound, damage, hurt

(1) without **injury**, (2) a fatal **injury**

My accidental **injury** got better right away.

motivation

n. the reason or enthusiasm for acting or behaving in a particular way

synonym: inspiration, incentive, reason

(1) understand his **motivation**, (2) **motivation** for a change

A significant amount of **motivation** is required to be a teacher.

norm

n. something that is regarded as usual, typical, or standard

synonym: criterion, mean, standard

(1) **norm** of action, (2) cultural **norm**

The systems we have developed has accepted as industry **norms**.

photon

n. a unit or quantum of electromagnetic energy, typically regarded as a particle that is the basic constituent of all light and other forms of electromagnetic radiation

synonym: particle, quantum, light

(1) **photon** emission, (2) **photon** energy

Infrared cameras detect **photons** in the infrared range of the electromagnetic spectrum.

polymer

n. a substance composed of macromolecules (= large groups of atoms) made from many smaller and simpler molecules

(1) **polymer** fiber, (2) biological **polymer**

We are developing plant-derived **polymers** to reduce environmental impact.

nerd

n. a person who is very interested in and knowledgeable about a particular subject such as computers, mathematics, chess, etc.

synonym : geek, techie, wonk

(1) a computer **nerd**, (2) **nerd** neck

He was, by nature, a cyber **nerd**.

complexity

n. the state or quality of being complicated or intricate and difficult to understand

synonym : intricacy, sophistication, elaboration

(1) cognitive **complexity**, (2) **complexity** theory

The project's **complexity** made it difficult for the team to complete it on time.

laser

n. a device that emits powerful and narrow light that can be used as a tool to cut metal through a process of optical amplification

synonym : beam, bar, ray

(1) **laser** printer, (2) pulse **laser**

The company holds patents on core components of **laser** jet printers.

femtosecond

n. a unit of time that is equal to one quadrillionth of a second (10^{-15} seconds), and femtosecond lasers are used in surgery and other medical applications

synonym : ten-to-the-minus-fifteenth, quadrillionth of a second

(1) **femtosecond** time scale, (2) **femtosecond** technology
Femtosecond lasers are used in various medical procedures, including eye surgeries.

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.

durable

adj. capable of lasting and being used for a long time without being damaged or destroyed

synonym: enduring, stable, long-lasting

(1) **durable** peace, (2) **durable** materials

Our company's products are made of highly **durable** materials.

accurate

adj. correct and exact in all details

synonym: exact, precise, proper

(1) provide **accurate** information, (2) **accurate** measurements

The official transcript contains **accurate** academic records.

nanoscale

adj. on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale

(1) **nanoscale** device, (2) things at the **nanoscale**

This process improves the strength of the metal by controlling the **nanoscale** lattice structure of the metal.

tower

n. a structure that is exceptionally high in proportion to its width and either forms part of a building or stands alone

synonym: building, belfry, edifice

(1) a bell **tower**, (2) the **tower** on a cliff

She is a **tower** of strength for our team in trouble.

mind-blowing

adj. extremely impressive in a way that affects someone's mind or emotions

synonym : amazing, incredible, shocking

(1) **mind-blowing** discovery, (2) a **mind-blowing** horror story

The **mind-blowing** effects of the psychedelic drug were unlike anything he had ever experienced.

micron

n. a unit of measurement equal to one-millionth of a meter, used for measuring the size of particles and microorganisms

synonym : micrometer

(1) **micron** measurements, (2) **micron** imaging

The width of a single human hair is around 100 **microns**.

comparison

n. the consideration or examination of the similarities between two or more people or things

synonym : equivalence, analogy, contrast

(1) ease of **comparison**, (2) **comparison** of foods on a caloric basis

I've included the two designs for a **comparison**.

diameter

n. the length of a straight line passing through the center of a circle and connecting two points on the circumference

synonym : diam, width

(1) **diameter** of an oval, (2) a particle **diameter**

Draw a circle five centimeters in **diameter**.

particle

n. a small piece of something; a word or piece of a term with grammatical function but little or no significance

synonym : atom, grain, bit

(1) charged **particle**, (2) **particle** energy

We can calculate the position of the **particles** statistically.

improvisation

n. the act of making something up on the spot or creating or performing something without preparation

synonym : spontaneity, ad-lib, extemporization

(1) **improvisation** on stage, (2) jazz **improvisation**
He created a beautiful piece of music using only **improvisation**.

resin

n. a sticky, viscous substance typically obtained from trees and plants, particularly conifers and evergreens; a material used in the manufacture of adhesives, plastics, and other products, particularly those that require stiffness or abrasion resistance

synonym : sap, gum, pitch

(1) tree **resin**, (2) synthetic **resin**

The guitar was coated with a **resin** layer to protect the wood and enhance the tone.

catching

adj. attracting attention or interest; likely to be noticed or remembered; appealing or compelling

synonym : contagious, alluring, captivating

(1) **catching** fire, (2) **catching** disease

The **catching** scent of freshly baked bread made my mouth water.

worm

n. a long, thin creature with a soft and long cylindrical tube-like body, no limbs, and a lack of eyes

(1) wiggly **worms**, (2) can of **worms**

Worms help dispose of the food waste produced by humans.

compatible

adj. capable of coexisting or working together without conflict or inconsistency; harmonious or well-matched

synonym : harmonious, congruent, consistent

(1) fully **compatible**, (2) **compatible** with HTML5

The new software is not **compatible** with the old operating system, causing compatibility issues and errors.

attach

v. to fasten, join, or connect one thing to another

synonym : fix, fasten, bind

(1) **attach** firmly, (2) **attach** a file to an e-mail

He does not **attach** importance to these rumors.

structure

n. the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts

synonym: construction, architecture, establishment

(1) the **structure** of a machine, (2) **structure** and function of the brain

The organizational **structure** of start-ups is often flat and straightforward.

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**.

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.

pump

v. to cause water, air, gas, etc. to move from one place to another by using mechanical equipment; to get or supply something such as money, information, etc. in significant quantities

synonym: drain, inject, send

(1) **pump** a secret out of success, (2) **pump** blood throughout the body

He was alert and could not **pump** any critical information out of him.

technique

n. a particular way or art of doing something that needs skill

synonym: approach, procedure, strategy

(1) a **technique** in martial arts, (2) the **technique** applied to construction

Jockey's superior **technique** brought him victory.

thesis

n. a written essay, especially one submitted for a university degree, that sets out the author's findings on a particular subject

synonym: dissertation, argument, treatise

(1) a drift of a **thesis**, (2) master **thesis**

His **thesis** on the effects of climate change won several awards.

brain

n. the organ inside the head that is responsible for one's movement, thought, memory, and feeling

synonym: intellect, mind, encephalon

(1) basic **brain** function, (2) permanent **brain** damage

X-rays revealed a small tumor in his **brain**.

construct

v. to build or create something; to assemble or combine different parts to form something whole

synonym: build, assemble, create

(1) **construct** a 3D image, (2) **construct** a dam

He **constructs** hypotheses that no mathematician has ever imagined before.

brilliantly

adv. in an intelligent, graceful, or skillful manner; very brightly or effectively

synonym: brightly, radiantly, excellently

(1) **brilliantly** executed, (2) **brilliantly** lit

He played the piano **brilliantly** at the concert.

resolution

n. a firm decision or determination to do or not do something; the action of solving a problem, dispute, or conflict; the quality of being resolved or determined; the clarity and sharpness of an image or display

synonym: determination, decision, settlement

(1) **resolution** of a conflict, (2) display **resolution**

He made a New Year's **resolution** to exercise more and eat healthier.

euro

n. the official currency of most European Union countries
(1) the value of the **Euro**, (2) **Euro** crises
Some countries may leave the **Euro**.

salary

n. a fixed amount of money that employees, especially those who work in an office, receive for doing their job, usually paid every month
synonym: compensation, earnings, pay
(1) a handsome **salary**, (2) **salary** after taxes
What are your annual **salary** expectations?

dimension

n. a measurable extent of a particular kind, such as width, height, or length
synonym: extent, measurement, size
(1) new **dimension**, (2) the crosswise **dimension**
Overall **dimensions** are approximately 400x200mm.

liquid

n. a substance, such as water or oil that flows freely and is neither a solid nor a gas
synonym: fluid
(1) colorless **liquid**, (2) hazardous **liquid**
The sponge takes up the **liquid** well.

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.

slice

n. a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting
synonym: piece, portion, slit
(1) a **slice** of the company's revenue, (2) **slice** a tomato thin

The children complained because one **slice** of cake was slightly larger than the other.

principle

n. a fundamental law or truth that explains or controls how something happens or works

synonym : rule, creed, code

(1) **principle** of treatment, (2) **principle** in business

Efficiency isn't an essential **principle** here; fairness is.

alien

n. a person who comes from a different country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere

synonym : foreigner, unfamiliar, unknown

(1) **alien** fungi, (2) resident **aliens**

Alien species have drastically altered the ecosystem in this area.

platform

n. the raised flat space close to the track at a train station where passengers get on or off the train; (technology) a computational or digital environment in which a piece of software is executed

synonym : stage, podium, forum

(1) an arrival **platform**, (2) a digital **platform** for enterprise

The speaker mounted the **platform** and started to speak.

process

n. a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

synonym : procedure, method, system

(1) **process** improvement, (2) decision-making **process**

The **process** for applying for a visa can be lengthy and complicated.

introduction

n. a preliminary explanation or remarks given before the start of a text, performance, or event; the act of bringing

something new into existence or introducing something to a wider audience or new market

synonym : initiation, preamble, prologue

(1) **introduction** education, (2) self- **introduction**

The **introduction** to the new class was informative and engaging.

desktop

n. a flat working surface or table that is usually placed on top of a desk, typically used for a computer or other work-related activities

synonym : computer, workstation, PC

(1) **desktop** software, (2) **desktop** wallpaper

I need to upgrade my **desktop** computer since it's become quite slow.

affordable

adj. not expensive and able to pay

synonym : cheap, reasonable, inexpensive

(1) **affordable** housing, (2) **affordable** solution

The automaker has been providing **affordable** car financing options since last year.

aid

n. things sent to help countries in need, notably food or money; support

synonym : helper, resource, assistance

(1) financial **aid**, (2) country-by-country **aid** programs

Pakistan's **aid** budget was still being reviewed.

individually

adv. separately or apart from others

synonym : separately, one by one, independently

(1) answer questions **individually**, (2) **individually** designed product

Each department has done its product costing **individually**.

shell

n. hard outer covering or case of eggs, nuts, some seeds, and some animals

synonym : ammunition, armor, cover

(1) an egg **shell**, (2) a mollusk **shell**

The outermost electron **shell** determines the chemical properties of an atom.

normally

adv. usually; under normal conditions

synonym: commonly, generally, naturally

(1) complete **normally**, (2) not **normally** drink much

I don't **normally** take a vacation in the middle of summer.

scan

v. to examine something hastily, with the eyes or with a machine, to get information

synonym: look over, scrutinize, browse

(1) **scan** the face of the man, (2) **scan** a document into PDF

She stood on the podium and **scanned** an audience.

electronics

n. the branch of physics and technology that deals with the behavior and control of electrons and the use of electronic devices and systems

synonym: technology, gadgets, circuitry

(1) **electronics** industry, (2) **electronics** store

The company specializes in manufacturing and selling cutting-edge **electronics**.

Session 2: Spelling

1. po____r fiber *n.* a substance composed of macromolecules (= large groups of atoms) made from many smaller and simpler molecules
2. can of w__ms *n.* a long, thin creature with a soft and long cylindrical tube-like body, no limbs, and a lack of eyes
3. lo___e a tumor *v.* to specify or determine the exact position of someone or something
4. without in___y *n.* harm done to a person's or an animal's body caused by an accident or an attack
5. E__o crises *n.* the official currency of most European Union countries
6. na_____le device *adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
7. min_____ing discovery *adj.* extremely impressive in a way that affects someone's mind or emotions
8. fem_____nd time scale *n.* a unit of time that is equal to one quadrillionth of a second (10^{-15} seconds), and femtosecond lasers are used in surgery and other medical applications
9. understand his mot_____on *n.* the reason or enthusiasm for acting or behaving in a particular way

ANSWERS: 1. polymer, 2. worm, 3. locate, 4. injury, 5. euro, 6. nanoscale, 7. mind-blowing, 8. femtosecond, 9. motivation

10. cognitive com_____ty *n.* the state or quality of being complicated or intricate and difficult to understand
11. l_b instrument *n.* a workplace for the conduct of scientific research; a laboratory
12. sa___y after taxes *n.* a fixed amount of money that employees, especially those who work in an office, receive for doing their job, usually paid every month
13. a particle di_____er *n.* the length of a straight line passing through the center of a circle and connecting two points on the circumference
14. self-int_____ion *n.* a preliminary explanation or remarks given before the start of a text, performance, or event; the act of bringing something new into existence or introducing something to a wider audience or new market
15. n__d neck *n.* a person who is very interested in and knowledgeable about a particular subject such as computers, mathematics, chess, etc.
16. so__d ally *adj.* hard or firm; characterized by good substantial quality
17. ind_____lly designed product *adv.* separately or apart from others
18. co_____ct a 3D image *v.* to build or create something; to assemble or combine different parts to form something whole
19. ph___n emission *n.* a unit or quantum of electromagnetic energy, typically regarded as a particle that is the basic constituent of all light and other forms of electromagnetic radiation

ANSWERS: 10. complexity, 11. lab, 12. salary, 13. diameter, 14. introduction, 15. nerd, 16. solid, 17. individually, 18. construct, 19. photon

20. p__p a secret out of success *v.* to cause water, air, gas, etc. to move from one place to another by using mechanical equipment; to get or supply something such as money, information, etc. in significant quantities
21. a te_____ue in martial arts *n.* a particular way or art of doing something that needs skill
22. a mollusk sh__l *n.* hard outer covering or case of eggs, nuts, some seeds, and some animals
23. pr_____le in business *n.* a fundamental law or truth that explains or controls how something happens or works
24. du_____e materials *adj.* capable of lasting and being used for a long time without being damaged or destroyed
25. a s__t on his honor *n.* a particular location or place; a small round or roundish area, differing in color or feels from the surface around it
26. fully com_____le *adj.* capable of coexisting or working together without conflict or inconsistency; harmonious or well-matched
27. at___h firmly *v.* to fasten, join, or connect one thing to another
28. a computer n__d *n.* a person who is very interested in and knowledgeable about a particular subject such as computers, mathematics, chess, etc.
29. de_____p software *n.* a flat working surface or table that is usually placed on top of a desk, typically used for a computer or other work-related activities

ANSWERS: 20. pump, 21. technique, 22. shell, 23. principle, 24. durable, 25. spot, 26. compatible, 27. attach, 28. nerd, 29. desktop

30. bri_____ly executed *adv.* in an intelligent, graceful, or skillful manner; very brightly or effectively
31. ph___n energy *n.* a unit or quantum of electromagnetic energy, typically regarded as a particle that is the basic constituent of all light and other forms of electromagnetic radiation
32. pulse la__r *n.* a device that emits powerful and narrow light that can be used as a tool to cut metal through a process of optical amplification
33. bri_____ly lit *adv.* in an intelligent, graceful, or skillful manner; very brightly or effectively
34. mi___n measurements *n.* a unit of measurement equal to one-millionth of a meter, used for measuring the size of particles and microorganisms
35. com_____ty theory *n.* the state or quality of being complicated or intricate and difficult to understand
36. hazardous li___d *n.* a substance, such as water or oil that flows freely and is neither a solid nor a gas
37. ac_____te measurements *adj.* correct and exact in all details
38. com_____on of foods on a caloric basis *n.* the consideration or examination of the similarities between two or more people or things
39. display res_____on *n.* a firm decision or determination to do or not do something; the action of solving a problem, dispute, or conflict; the quality of being resolved or determined; the clarity and sharpness of an image or display

ANSWERS: 30. brilliantly, 31. photon, 32. laser, 33. brilliantly, 34. micron, 35. complexity, 36. liquid, 37. accurate, 38. comparison, 39. resolution

40. lo___e a missing pet *v.* to specify or determine the exact position of someone or something
41. mot_____on for a change *n.* the reason or enthusiasm for acting or behaving in a particular way
42. ele_____cs store *n.* the branch of physics and technology that deals with the behavior and control of electrons and the use of electronic devices and systems
43. di_____er of an oval *n.* the length of a straight line passing through the center of a circle and connecting two points on the circumference
44. things at the na_____le *adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
45. answer questions ind_____lly *adv.* separately or apart from others
46. not no_____ly drink much *adv.* usually; under normal conditions
47. pr_____s improvement *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
48. new di_____on *n.* a measurable extent of a particular kind, such as width, height, or length
49. ele_____cs industry *n.* the branch of physics and technology that deals with the behavior and control of electrons and the use of electronic devices and systems

ANSWERS: 40. locate, 41. motivation, 42. electronics, 43. diameter, 44. nanoscale, 45. individually, 46. normally, 47. process, 48. dimension, 49. electronics

50. p__p blood throughout the body *v.* to cause water, air, gas, etc. to move from one place to another by using mechanical equipment; to get or supply something such as money, information, etc. in significant quantities
51. s__n the face of the man *v.* to examine something hastily, with the eyes or with a machine, to get information
52. ease of com_____on *n.* the consideration or examination of the similarities between two or more people or things
53. ca_____ng fire *adj.* attracting attention or interest; likely to be noticed or remembered; appealing or compelling
54. mi___n imaging *n.* a unit of measurement equal to one-millionth of a meter, used for measuring the size of particles and microorganisms
55. a sl__e of the company's revenue *n.* a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting
56. a bell to__r *n.* a structure that is exceptionally high in proportion to its width and either forms part of a building or stands alone
57. fem_____nd technology *n.* a unit of time that is equal to one quadrillionth of a second (10^{-15} seconds), and femtosecond lasers are used in surgery and other medical applications
58. charged pa_____le *n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance

ANSWERS: 50. pump, 51. scan, 52. comparison, 53. catching, 54. micron, 55. slice, 56. tower, 57. femtosecond, 58. particle

69. ca_____ng disease *adj.* attracting attention or interest; likely to be noticed or remembered; appealing or compelling
70. a handsome sa_____y *n.* a fixed amount of money that employees, especially those who work in an office, receive for doing their job, usually paid every month
71. aff_____le solution *adj.* not expensive and able to pay
72. colorless li_____d *n.* a substance, such as water or oil that flows freely and is neither a solid nor a gas
73. the to__r on a cliff *n.* a structure that is exceptionally high in proportion to its width and either forms part of a building or stands alone
74. tree re__n *n.* a sticky, viscous substance typically obtained from trees and plants, particularly conifers and evergreens; a material used in the manufacture of adhesives, plastics, and other products, particularly those that require stiffness or abrasion resistance
75. n__m of action *n.* something that is regarded as usual, typical, or standard
76. pa_____le energy *n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance
77. a min_____ing horror story *adj.* extremely impressive in a way that affects someone's mind or emotions
78. the crosswise di_____on *n.* a measurable extent of a particular kind, such as width, height, or length

ANSWERS: 69. catching, 70. salary, 71. affordable, 72. liquid, 73. tower, 74. resin, 75. norm, 76. particle, 77. mind-blowing, 78. dimension

79. wiggly w__ms *n.* a long, thin creature with a soft and long cylindrical tube-like body, no limbs, and a lack of eyes
80. com_____le with HTML5 *adj.* capable of coexisting or working together without conflict or inconsistency; harmonious or well-matched
81. jazz imp_____ion *n.* the act of making something up on the spot or creating or performing something without preparation
82. a drift of a th___s *n.* a written essay, especially one submitted for a university degree, that sets out the author's findings on a particular subject
83. an arrival pl_____rm *n.* the raised flat space close to the track at a train station where passengers get on or off the train; (technology) a computational or digital environment in which a piece of software is executed
84. pr_____le of treatment *n.* a fundamental law or truth that explains or controls how something happens or works
85. provide ac_____te information *adj.* correct and exact in all details
86. la__r printer *n.* a device that emits powerful and narrow light that can be used as a tool to cut metal through a process of optical amplification
87. s__n a document into PDF *v.* to examine something hastily, with the eyes or with a machine, to get information

ANSWERS: 79. worm, 80. compatible, 81. improvisation, 82. thesis, 83. platform, 84. principle, 85. accurate, 86. laser, 87. scan

88. complete no____ly *adv.* usually; under normal conditions
89. decision-making pr____s *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
90. imp_____ion on stage *n.* the act of making something up on the spot or creating or performing something without preparation
91. resident al__ns *n.* a person who comes from a different country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere
92. st_____re and function of the brain *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
93. al__n fungi *n.* a person who comes from a different country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere
94. country-by-country a_d programs *n.* things sent to help countries in need, notably food or money; support
95. so__d employment measures *adj.* hard or firm; characterized by good substantial quality
96. a fatal in__y *n.* harm done to a person's or an animal's body caused by an accident or an attack

ANSWERS: 88. normally, 89. process, 90. improvisation, 91. alien, 92. structure, 93. alien, 94. aid, 95. solid, 96. injury

97. sl__e a tomato thin *n.* a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting
98. a digital pl_____rm for enterprise *n.* the raised flat space close to the track at a train station where passengers get on or off the train; (technology) a computational or digital environment in which a piece of software is executed
99. the te_____ue applied to construction *n.* a particular way or art of doing something that needs skill
100. synthetic re__n *n.* a sticky, viscous substance typically obtained from trees and plants, particularly conifers and evergreens; a material used in the manufacture of adhesives, plastics, and other products, particularly those that require stiffness or abrasion resistance
101. at___h a file to an e-mail *v.* to fasten, join, or connect one thing to another
102. the value of the E__o *n.* the official currency of most European Union countries
103. master th___s *n.* a written essay, especially one submitted for a university degree, that sets out the author's findings on a particular subject
104. co_____ct a dam *v.* to build or create something; to assemble or combine different parts to form something whole
105. aff_____le housing *adj.* not expensive and able to pay

ANSWERS: 97. slice, 98. platform, 99. technique, 100. resin, 101. attach, 102. euro, 103. thesis, 104. construct, 105. affordable

106. cultural n__m *n.* something that is regarded as usual, typical, or standard
107. biological po____r *n.* a substance composed of macromolecules (= large groups of atoms) made from many smaller and simpler molecules
108. int_____ion education *n.* a preliminary explanation or remarks given before the start of a text, performance, or event; the act of bringing something new into existence or introducing something to a wider audience or new market

ANSWERS: 106. norm, 107. polymer, 108. introduction

Session 3: Fill in the Blanks

1. The _____ to the new class was informative and engaging.
n. a preliminary explanation or remarks given before the start of a text, performance, or event; the act of bringing something new into existence or introducing something to a wider audience or new market
2. The new software is not _____ with the old operating system, causing compatibility issues and errors.
adj. capable of coexisting or working together without conflict or inconsistency; harmonious or well-matched
3. The official transcript contains _____ academic records.
adj. correct and exact in all details
4. The _____ scent of freshly baked bread made my mouth water.
adj. attracting attention or interest; likely to be noticed or remembered; appealing or compelling
5. We can calculate the position of the _____ statistically.
n. a small piece of something; a word or piece of a term with grammatical function but little or no significance
6. We are developing plant-derived _____ to reduce environmental impact.
n. a substance composed of macromolecules (= large groups of atoms) made from many smaller and simpler molecules
7. _____ species have drastically altered the ecosystem in this area.
n. a person who comes from a different country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere

ANSWERS: 1. introduction, 2. compatible, 3. accurate, 4. catching, 5. particles, 6. polymers, 7. Alien

8. The organizational _____ of start-ups is often flat and straightforward.
- n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
9. _____ lasers are used in various medical procedures, including eye surgeries.
- n.* a unit of time that is equal to one quadrillionth of a second (10^{-15} seconds), and femtosecond lasers are used in surgery and other medical applications
10. He made a New Year's _____ to exercise more and eat healthier.
- n.* a firm decision or determination to do or not do something; the action of solving a problem, dispute, or conflict; the quality of being resolved or determined; the clarity and sharpness of an image or display
11. A significant amount of _____ is required to be a teacher.
- n.* the reason or enthusiasm for acting or behaving in a particular way
12. _____ help dispose of the food waste produced by humans.
- n.* a long, thin creature with a soft and long cylindrical tube-like body, no limbs, and a lack of eyes
13. Each department has done its product costing _____.
- adv.* separately or apart from others
14. The speaker mounted the _____ and started to speak.
- n.* the raised flat space close to the track at a train station where passengers get on or off the train; (technology) a computational or digital environment in which a piece of software is executed
15. The sponge takes up the _____ well.
- n.* a substance, such as water or oil that flows freely and is neither a solid nor a gas

ANSWERS: 8. structure, 9. Femtosecond, 10. resolution, 11. motivation, 12. Worms, 13. individually, 14. platform, 15. liquid

16. The width of a single human hair is around 100 _____.
- n.* a unit of measurement equal to one-millionth of a meter, used for measuring the size of particles and microorganisms
17. The guitar was coated with a _____ layer to protect the wood and enhance the tone.
- n.* a sticky, viscous substance typically obtained from trees and plants, particularly conifers and evergreens; a material used in the manufacture of adhesives, plastics, and other products, particularly those that require stiffness or abrasion resistance
18. He created a beautiful piece of music using only _____.
- n.* the act of making something up on the spot or creating or performing something without preparation
19. What are your annual _____ expectations?
- n.* a fixed amount of money that employees, especially those who work in an office, receive for doing their job, usually paid every month
20. 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
21. I need to upgrade my _____ computer since it's become quite slow.
- n.* a flat working surface or table that is usually placed on top of a desk, typically used for a computer or other work-related activities
22. Overall _____ are approximately 400x200mm.
- n.* a measurable extent of a particular kind, such as width, height, or length

ANSWERS: 16. microns, 17. resin, 18. improvisation, 19. salary, 20. spot, 21. desktop, 22. dimensions

23. He played the piano _____ at the concert.

adv. in an intelligent, graceful, or skillful manner; very brightly or effectively

24. Infrared cameras detect _____ in the infrared range of the electromagnetic spectrum.

n. a unit or quantum of electromagnetic energy, typically regarded as a particle that is the basic constituent of all light and other forms of electromagnetic radiation

25. The children complained because one _____ of cake was slightly larger than the other.

n. a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting

26. The systems we have developed has accepted as industry _____.

n. something that is regarded as usual, typical, or standard

27. The Prime Minister will pay a courtesy visit to the Nobel laureate's _____.

n. a workplace for the conduct of scientific research; a laboratory

28. Efficiency isn't an essential _____ here; fairness is.

n. a fundamental law or truth that explains or controls how something happens or works

29. She stood on the podium and _____ an audience.

v. to examine something hastily, with the eyes or with a machine, to get information

30. The _____ for applying for a visa can be lengthy and complicated.

n. a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

ANSWERS: 23. brilliantly, 24. photons, 25. slice, 26. norms, 27. lab, 28. principle, 29. scanned, 30. process

31. I've included the two designs for a _____.
- n.* the consideration or examination of the similarities between two or more people or things
32. Draw a circle five centimeters in _____.
- n.* the length of a straight line passing through the center of a circle and connecting two points on the circumference
33. The _____ of water is called ice.
- adj.* hard or firm; characterized by good substantial quality
34. The project's _____ made it difficult for the team to complete it on time.
- n.* the state or quality of being complicated or intricate and difficult to understand
35. He was, by nature, a cyber _____.
- n.* a person who is very interested in and knowledgeable about a particular subject such as computers, mathematics, chess, etc.
36. He was alert and could not _____ any critical information out of him.
- v.* to cause water, air, gas, etc. to move from one place to another by using mechanical equipment; to get or supply something such as money, information, etc. in significant quantities
37. He _____ hypotheses that no mathematician has ever imagined before.
- v.* to build or create something; to assemble or combine different parts to form something whole
38. The outermost electron _____ determines the chemical properties of an atom.
- n.* hard outer covering or case of eggs, nuts, some seeds, and some animals

ANSWERS: 31. comparison, 32. diameter, 33. solid-state, 34. complexity, 35. nerd, 36. pump, 37. constructs, 38. shell

39. My accidental _____ got better right away.

n. harm done to a person's or an animal's body caused by an accident or an attack

40. She is a _____ of strength for our team in trouble.

n. a structure that is exceptionally high in proportion to its width and either forms part of a building or stands alone

41. The robot can accurately _____ construction material.

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

42. Pakistan's _____ budget was still being reviewed.

n. things sent to help countries in need, notably food or money; support

43. His _____ on the effects of climate change won several awards.

n. a written essay, especially one submitted for a university degree, that sets out the author's findings on a particular subject

44. Some countries may leave the _____.

n. the official currency of most European Union countries

45. The company specializes in manufacturing and selling cutting-edge _____.

n. the branch of physics and technology that deals with the behavior and control of electrons and the use of electronic devices and systems

46. The _____ effects of the psychedelic drug were unlike anything he had ever experienced.

adj. extremely impressive in a way that affects someone's mind or emotions

ANSWERS: 39. injury, 40. tower, 41. locate, 42. aid, 43. thesis, 44. Euro, 45. electronics, 46. mind-blowing

47. I don't _____ take a vacation in the middle of summer.

adv. usually; under normal conditions

48. This process improves the strength of the metal by controlling the _____ lattice structure of the metal.

adj. on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale

49. X-rays revealed a small tumor in his _____.

n. the organ inside the head that is responsible for one's movement, thought, memory, and feeling

50. The automaker has been providing _____ car financing options since last year.

adj. not expensive and able to pay

51. He does not _____ importance to these rumors.

v. to fasten, join, or connect one thing to another

52. The company holds patents on core components of _____ jet printers.

n. a device that emits powerful and narrow light that can be used as a tool to cut metal through a process of optical amplification

53. Our company's products are made of highly _____ materials.

adj. capable of lasting and being used for a long time without being damaged or destroyed

54. Jockey's superior _____ brought him victory.

n. a particular way or art of doing something that needs skill

ANSWERS: 47. normally, 48. nanoscale, 49. brain, 50. affordable, 51. attach, 52. laser, 53. durable, 54. technique

ANSWERS: