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Vocabulary Builder Reference from...

Katherine Kuchenbecker: The technology of touch | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

mechanical

adj. operated by a machine, relating to or concerned with machinery or tools

synonym: machinelike, automated, automatic

(1) a **mechanical** style of writing, (2) the influence of **mechanical** action

A **mechanical** engineer is still in demand in many companies.

engineer

n. a person whose job is designing, building, or maintaining something such as machines, structures, or software

synonym: architect, creator, builder

(1) a civil **engineer**, (2) **engineer** shortage

The **engineer** will repair my telephone tomorrow morning.

photograph

n. a picture or image that is produced by a camera; a visual representation or record of a person, object, or scene that has been captured electronically or on film

synonym: photo, picture, snapshot

(1) **photograph** album, (2) **photograph** memories

I found an old **photograph** of my grandparents from their wedding day.

involve

v. to include or affect someone or something as a necessary part of something else

synonym: implicate, include, engage

(1) **involve** a lot of paperwork, (2) **involve** a high degree of risk

The investigation **involves** several government agencies and is expected to take several months.

interaction

n. the act of connecting with someone, mainly when working, playing, or spending time with them

synonym: dealings, exchange, relations

(1) the **interaction** between man and his environment,

(2) **interaction** among human beings

The **interaction** of the two groups is good for brainstorming.

manipulate

v. to influence or control something or someone to your advantage, often in an unfair or dishonest way

synonym: control, exploit, abuse

(1) **manipulate** figures, (2) vulnerable to **manipulate**

Please tell me how to **manipulate** this computer.

component

n. one of several parts that combines with others to form something bigger

synonym: element, part, factor

(1) key **component**, (2) spare **components** for cars

The researchers try to discover a common **component** in all types of successful organizations.

tactile

adj. relating to the sense of touch; tangible or perceptible through the sense of touch

synonym: touchable, tangible, palpable

(1) **tactile** stimulation, (2) **tactile** feedback

The **tactile** sensation of the fabric was soft and smooth to the touch.

kinesthetic

adj. relating to the sense of movement or muscle tension

synonym: physical, somatic, tactile

(1) **kinesthetic** feedback, (2) **kinesthetic** sense
The **kinesthetic** learning style focuses on physical movement and hands-on activities.

encounter

v. to face something, particularly something unpleasant or difficult, while attempting to do something else; to meet, especially unexpectedly

synonym: meet, run into, come across

(1) **encounter** a crisis, (2) **encounter** a storm

I'm prepared to **encounter** challenges throughout this adventure.

incorporate

v. to include something as a part of a larger entity

synonym: contain, integrate, amalgamate

(1) **incorporate** the current trends, (2) **incorporate** technology into daily life

We will attempt to **incorporate** some of your suggestions into our future strategy.

fascinate

v. to attract and hold the attention of someone deeply and irresistibly

synonym: captivate, intrigue, mesmerize

(1) **fascinate** the public, (2) **fascinate** the young

The magic tricks **fascinated** the children.

intrigue

v. to make someone interested, especially by being strange, unusual, or mysterious; to make a secret plan with other people to harm someone

synonym: attract, captivate, charm

(1) **intrigue** him, (2) **intrigue** against his rival

The artist's innovative style of work **intrigues** me.

lever

n. a handle used to operate a vehicle or a machine; a rigid bar resting on a pivot so that one end of it can be pushed or pulled easily

synonym: lifter, crowbar, bar

(1) a gear change **lever**, (2) **lever** for reform

This initiative will be a **lever** for increasing company sales.

improve

v. to make or become better

synonym: enhance, ameliorate, enrich

(1) **improve** a process, (2) **improve** the test score

We want to **improve** ties between our two countries.

interface

n. (computer science) a program that controls a display for the user and that allows the user to interact with the system; (chemistry) a surface forming a common boundary between two things

synonym: junction, surface, UI

(1) **interface** between gas and liquid, (2) the user **interface**

Detergent weakens the surface tension at the **interface** of two liquids.

advantage

n. a condition or circumstance that puts one in a favorable or superior position; a beneficial feature or asset that someone or something has

synonym: benefit, edge, asset

(1) score an **advantage**, (2) take **advantage** of his weak points

One of the main **advantages** of the new product is its increased efficiency.

haptic

adj. of or relating to or involving the sense of touch

synonym: tactile, tactual

(1) **haptic** perception, (2) **haptic** feedback

The player controls the game with a joystick or other **haptic** device.

interactive

adj. acting reciprocally; mutually responsive

synonym: reciprocal, responsive, mutual

(1) **interactive** experience, (2) an **interactive** device

The new video game has an **interactive** storyline that allows players to make choices that affect the game's outcome.

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**.

capture *v.* to catch a person or an animal and confine them in an area which they cannot escape
synonym: catch, arrest, imprison
(1) **capture** a glimpse, (2) **capture** customers' hearts
I was able to **capture** the moment on film.

recreate *v.* to make something that existed previously happen or appear to exist again
synonym: renovate, vivify, revive
(1) **recreate** a single country, (2) **recreate** the feeling of the 1920s
She **recreated** the atmosphere of the pre-war age with her stage setting.

handheld *adj.* designed to be held in one hand; portable, and compact enough to be carried or used on the go
synonym: portable, mobile, compact
(1) **handheld** device, (2) **handheld** camera
The technician used a **handheld** tool to fix the machine.

vibration *n.* a continuous quick and slight shaking movement
synonym: oscillation, fluctuation, reverberation
(1) protection against **vibration**, (2) sympathetic **vibration**
Vibration displaced part of the mechanism.

accelerometer *n.* a device that measures acceleration or changes in motion, typically used in aerospace, automotive, and other engineering applications to monitor and control movement or to measure things like speed or vibration
synonym: sensor, g-sensor, gravimeter

(1) **accelerometer** reading, (2) high-precision **accelerometer**

The phone's **accelerometer** measures its movement and orientation in three-dimensional space.

detect

v. to find or recognize something, especially something difficult to see, hear, etc.

synonym: catch, observe, notice

(1) **detect** a bad event, (2) **detect** smuggling across borders

The security camera has **detected** four intruders.

canvas

n. the heavy, closely woven fabric used for making tents, sails, etc. and by artists for painting on

(1) blank **canvas**, (2) oil on **canvas**

Life is a vast **canvas**; you should put as much paint on it as possible.

silk

n. a fine, strong, soft, lustrous fiber produced by silkworms in making cocoons and collected to make thread and fabric

synonym: satin, taffeta, velvet

(1) **silk** road, (2) **silk** fabric

She wore a **silk** dress to the party.

mathematics

n. the science dealing with the logic of quantities, shapes, spaces, and arrangement

synonym: arithmetic, calculation, calculus

(1) a good grounding in **mathematics**, (2) **mathematics** competition

He has a flair for **mathematics**.

relation

n. the way two persons or groups of people feel and act toward one another

synonym: association, linkage, connection

(1) **relation** between cause and effect, (2) **relation** of inclusion

The industrial **relations** laws were passed with little to no alteration.

tablet

n. a small flat electronic device used for browsing the internet, reading, writing, or playing games; a small, solid pill of medicine

synonym : notepad, pill, medication

(1) a multivitamin **tablet**, (2) **tablet** keyboard

The new **tablet** device has a faster processor and better graphics than its predecessor.

stylus

n. a thin, pointed tool used to write, draw, or select items on a touchscreen device

synonym : pen, pointer, cursor

(1) **stylus** pen, (2) **stylus** pocket

Many artists prefer to use a **stylus** over their fingers when drawing on a digital canvas.

coil

v. to wind something in a spiral or helical shape; to create a coil or coil-like shape; to group or organize something closely together in a circular or spiral pattern

synonym : twist, wind, loop

(1) **coil** wire, (2) **coil** an arm

She carefully **coiled** the rope so that it wouldn't tangle.

actuate

v. to cause a machine or equipment to start to work

synonym : motivate, spark, drive

(1) **actuate** the circuits, (2) **actuate** a parking brake

A desire for success **actuated** her.

bracket

n. projecting support or fixture used to attach or bear weight; a small shelf or ledge; a punctuation mark ([]) used to enclose words, numbers, or symbols

synonym : support, holder, frame

(1) **bracket** placement, (2) tax **bracket**

I need to hang these shelves with the help of some sturdy **brackets**.

illusion

n. a false idea or belief, especially about somebody or about a situation

synonym: delusion, fallacy, magic trick

(1) optical **illusion**, (2) the **illusion** of being in the forest

He could no longer tell the difference between **illusion** and reality.

drag

v. to pull or haul with force

synonym: haul, pull, draw

(1) **drag** a chair over, (2) **drag** a team down

He **dragged** the heavy suitcase behind him as he walked.

compelling

adj. arousing strong and irresistible interest, attention, or admiration

synonym: tempting, captivating, influential

(1) tell a **compelling** story, (2) new and **compelling** evidence

His **compelling** presentation deeply moved everyone.

exhibit

v. to show something in public for people to enjoy or to provide them with information

synonym: display, expose, show

(1) **exhibit** a bad attitude, (2) **exhibit** a great talent

Other technology industries **exhibit** similarly explosive growth.

suppose

v. to think that something is likely to be actual or possible

synonym: guess, assume, presume

(1) **suppose** you're right, (2) **suppose** beforehand

What do you **suppose** the culprit's motive was?

precious

adj. uncommon and extremely valuable

synonym: adored, cherished, valued

(1) price of **precious** metals, (2) **precious** information

We cannot afford to squander **precious** time.

artifact

n. a person-made object, especially one of historical or cultural interest

synonym : antique, relic, heirloom

(1) paleolithic **artifacts**, (2) Peruvian **artifacts**

The museum has a vast collection of Greek **artifacts**.

collaboration

n. the act or situation of working together to create or produce something

synonym : affiliation, alliance, coalition

(1) **collaboration** between companies, (2) **collaboration** platform

The partnership program requires a mutual **collaboration** between both agencies.

dental

adj. of or relating to teeth

synonym : oral, tooth, mouth

(1) **dental** hygiene, (2) **dental** care

I have a **dental** appointment at 2 pm to get my teeth cleaned.

patient

n. a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic

synonym : client, recipient, subject

(1) **patient** in the hospital, (2) **patient** with weight loss

The doctor carefully examined the **patient's** medical history.

cavity

n. an empty space or hollowness within a solid object, especially within the body, such as a tooth or bone; a hole or depression in a surface or the ground

synonym : hollows, holes, indenture

(1) tooth **cavity**, (2) **cavity** filling

I have a **cavity** in one of my molars and must schedule a dentist appointment.

X-ray

n. a type of electromagnetic radiation that has a wavelength shorter than visible light allowing hidden

objects such as bones and organs inside the body to be photographed

synonym : roentgenogram, photon radiography

(1) **X-ray** scan, (2) an **X-ray** of arteries

The doctor ordered an **X-ray** to see if there was any damage to the bones.

clinical

adj. of or relating to the examination and treatment of patients rather than theoretical or laboratory studies

synonym : dispassionate, analytic, scientific

(1) **clinical** surgery, (2) participate in **clinical** trials

She received special **clinical** training at the hospital.

judgment

n. the ability to form valuable opinions and make reasonable decisions

synonym : conclusion, decision, determination

(1) an emotional **judgment** , (2) deliver a **judgment**

Her **judgments** are consistently rational and sensible.

sticky

adj. made of or covered with an adhesive substance; hot or warm and humid

synonym : adhesive, gluey, clingy

(1) **sticky** weather, (2) **sticky** situation

A peculiar **sticky** material coated the foliage.

enamel

n. a hard, glossy coating that is applied to surfaces such as metal, glass, or ceramics to protect them from wear, corrosion, or weathering; the hard, white outer layer of teeth

synonym : glaze, varnish, coating

(1) **enamel** coating, (2) **enamel** mugs

The dentist recommended using toothpaste with extra **enamel** protection to prevent cavities.

decay

n. the process or state of rotting or decomposition by natural causes such as the action of bacteria and fungi; (verb) to rot or decompose through natural causes

synonym: corrosion, decomposition, deterioration

(1) radioactive **decay**, (2) prevent tooth **decay**

The dead body was in an advanced state of **decay**.

extract

n. a short passage taken from a book, piece of music, etc.; a substance obtained from something through a specific process; (verb) to obtain from something or to remove something by effort or force

synonym: excerpt, quote, distillation

(1) a brief **extract** from the book, (2) botanical **extract**

Anesthetize the gum before **extracting** the teeth.

dentist

n. a person who is qualified and licensed to treat people's teeth

synonym: oral surgeon, orthodontist, periodontist

(1) a **dentist's** office, (2) consult a **dentist**

I am going to the family **dentist** to get my teeth cleaned.

suspicious

adj. making you feel that someone has done something wrong, illegal, or dishonest without any evidence

synonym: fishy, questionable, doubtful

(1) report **suspicious** activity, (2) a person who is **suspicious**

We carefully examine each **suspicious** transaction report we receive.

stain

v. to discolor, defile, or tarnish something; (noun) a discoloration or dirty mark on a surface that is difficult to remove

synonym: discolor, tarnish, defile

(1) **stain** the carpet, (2) red wine **stain**

The allegations of corruption **stained** her reputation, and she struggled to regain public trust.

definitely

adv. without any question and beyond doubt; clearly

synonym: absolutely, certainly, indeed

(1) **definitely** become a problem, (2) say **definitely**

The paper is **definitely** worth reading thoroughly.

invention

n. the creation of a new device or process resulting from study and experimentation; the act of inventing

synonym: creation, design, innovation

(1) the **invention** of new techniques, (2) common **invention**

Necessity is the mother of **invention**.

medical

adj. relating to the treatment of illness or injuries; relating to the practice of medicine

synonym: health, disease, treatment

(1) a **medical** opinion, (2) temporary **medical** treatment

The **medical** team worked quickly to save the patient's life.

realistic

adj. having or showing a sensible and practical idea that is possible to achieve

synonym: practical, pragmatic, down-to-earth

(1) a **realistic** goal, (2) a **realistic** goal

That story was so **realistic**, and it was scary.

movement

n. a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively

synonym: motion, progression, action

(1) a circular **movement**, (2) **movement** of troops

The **movement** of the dancers on stage was graceful and elegant.

surf

v. to ride on or through waves while standing or lying down on a board or other object; to search or browse the Internet or other computer networks in a casual or aimless manner

synonym: browse, scan, paddle

(1) **surf** the Internet, (2) **surf** the waves

I'll **surf** the online store to see if I can find that item in a different color.

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.

efficient

adj. performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials

synonym: productive, effective, competent

(1) **efficient** operation, (2) energy- **efficient** appliances

The new washing machine is much more **efficient** than the old one.

graphics

n. images, designs, or drawings used in websites, books, magazines, etc.

synonym: drawings, illustrations, pictures

(1) computer **graphics**, (2) **graphics** engine

My dream is to become a great **graphics** designer like her.

cue

n. a signal, gesture, or action that provides information or direction for someone else to act or respond; a reminder or prompt for someone to do something

synonym: signal, sign, hint

(1) **cue** card, (2) visual **cue**

The director gave the actor a **cue** to begin the scene.

motor

n. a device that converts electricity, fuel, etc. into movement and makes a machine, vehicle, etc. work

synonym: actuator, engine, machine

(1) a **motor** mechanic, (2) DC **motor** control

Energy-efficient **motors** are needed to maximize the cruising

distance of electric vehicles.

deviate

v. to depart from an established course or plan; to change direction or take a different route or approach

synonym: stray, diverge, veer

(1) **deviate** from the norm, (2) **deviate** from the plan

It's important not to **deviate** from the established safety procedures.

gentle

adj. having or showing a kindly or tender nature; soft and mild

synonym: mild, delicate, soft

(1) in a **gentle** voice, (2) **gentle** downward slope

Her **gentle** manner relaxed everyone there.

precise

adj. sharply exact or accurate or delimited

synonym: accurate, exact, distinct

(1) **precise** analyses, (2) estimate **precise** costs

The content is **precise** and informative for me.

develop

v. to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created

synonym: evolve, progress, advance

(1) **develop** a strategy, (2) **develop** a skill

We must **develop** a new system to streamline our workflow and increase efficiency.

stroke

n. a medical condition in which poor blood flow to the brain causes cell death; the act of swinging or striking at a ball with a club, racket, etc.

synonym: blow

(1) suffer **stroke**, (2) a **stroke** of the putter

This year's extreme heat has resulted in many heat **stroke** cases.

rehabilitate

- v. to restore to good health or physical condition; to help someone return to a normal life, especially after a period of illness, addiction, or imprisonment

synonym: reform, restore, renovate

(1) **rehabilitate** prisoners, (2) **rehabilitate** wildlife

The organization works to **rehabilitate** drug addicts and help them rebuild their lives.

acknowledge

- v. to accept or admit the existence, reality, or truth of something; to accept that someone or something has a particular authority or quality; to express obligation, thanks, or gratitude for someone's help, commitment, etc.;

synonym: accept, agree, declare

(1) **acknowledge** the deed, (2) **acknowledge** his help

He never **acknowledged** his fault.

collaborate

- v. to work with someone else to produce or achieve something

synonym: cooperate, unite, get together

(1) **collaborate** with the police, (2) **collaborate** on a press release

She agreed to **collaborate** with him in creating new artwork.

Session 2: Spelling

- | | |
|-----------------------------------|--|
| 1. in a ge___e voice | <i>adj.</i> having or showing a kindly or tender nature; soft and mild |
| 2. participate in cl____al trials | <i>adj.</i> of or relating to the examination and treatment of patients rather than theoretical or laboratory studies |
| 3. a me____l opinion | <i>adj.</i> relating to the treatment of illness or injuries; relating to the practice of medicine |
| 4. temporary me____l treatment | <i>adj.</i> relating to the treatment of illness or injuries; relating to the practice of medicine |
| 5. col_____ion platform | <i>n.</i> the act or situation of working together to create or produce something |
| 6. estimate pr____e costs | <i>adj.</i> sharply exact or accurate or delimited |
| 7. report sus____us activity | <i>adj.</i> making you feel that someone has done something wrong, illegal, or dishonest without any evidence |
| 8. a circular mo____nt | <i>n.</i> a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively |
| 9. gr____cs engine | <i>n.</i> images, designs, or drawings used in websites, books, magazines, etc. |
| 10. ge___e downward slope | <i>adj.</i> having or showing a kindly or tender nature; soft and mild |

ANSWERS: 1. gentle, 2. clinical, 3. medical, 4. medical, 5. collaboration, 6. precise, 7. suspicious, 8. movement, 9. graphics, 10. gentle

11. s__f the waves *v.* to ride on or through waves while standing or lying down on a board or other object; to search or browse the Internet or other computer networks in a casual or aimless manner
12. st___s pen *n.* a thin, pointed tool used to write, draw, or select items on a touchscreen device
13. inc_____te technology into daily life *v.* to include something as a part of a larger entity
14. pa_____t in the hospital *n.* a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic
15. optical il_____on *n.* a false idea or belief, especially about somebody or about a situation
16. the int_____on between man and his environment *n.* the act of connecting with someone, mainly when working, playing, or spending time with them
17. de___t a bad event *v.* to find or recognize something, especially something difficult to see, hear, etc.
18. im_____e a process *v.* to make or become better
19. protection against vi_____on *n.* a continuous quick and slight shaking movement
20. say def_____ly *adv.* without any question and beyond doubt; clearly
21. reh_____ate prisoners *v.* to restore to good health or physical condition; to help someone return to a normal life, especially after a period of illness, addiction, or imprisonment

ANSWERS: 11. surf, 12. stylus, 13. incorporate, 14. patient, 15. illusion, 16. interaction, 17. detect, 18. improve, 19. vibration, 20. definitely, 21. rehabilitate

22. an X-__y of arteries *n.* a type of electromagnetic radiation that has a wavelength shorter than visible light allowing hidden objects such as bones and organs inside the body to be photographed
23. paleolithic ar____cts *n.* a person-made object, especially one of historical or cultural interest
24. blank ca____s *n.* the heavy, closely woven fabric used for making tents, sails, etc. and by artists for painting on
25. visual c_e *n.* a signal, gesture, or action that provides information or direction for someone else to act or respond; a reminder or prompt for someone to do something
26. d__g a team down *v.* to pull or haul with force
27. inc_____te the current trends *v.* to include something as a part of a larger entity
28. tooth ca____y *n.* an empty space or hollowness within a solid object, especially within the body, such as a tooth or bone; a hole or depression in a surface or the ground
29. prevent tooth de__y *n.* the process or state of rotting or decomposition by natural causes such as the action of bacteria and fungi; (verb) to rot or decompose through natural causes
30. deliver a ju____nt *n.* the ability to form valuable opinions and make reasonable decisions
31. X-__y scan *n.* a type of electromagnetic radiation that has a wavelength shorter than visible light allowing hidden objects such as bones and organs inside the body to be photographed

ANSWERS: 22. X-ray, 23. artifact, 24. canvas, 25. cue, 26. drag, 27. incorporate, 28. cavity, 29. decay, 30. judgment, 31. X-ray

32. ca___y filling *n.* an empty space or hollowness within a solid object, especially within the body, such as a tooth or bone; a hole or depression in a surface or the ground
33. d__g a chair over *v.* to pull or haul with force
34. re_____te the feeling of the 1920s *v.* to make something that existed previously happen or appear to exist again
35. the in_____on of new techniques *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
36. a re_____ic goal *adj.* having or showing a sensible and practical idea that is possible to achieve
37. im_____e the test score *v.* to make or become better
38. int_____ve experience *adj.* acting reciprocally; mutually responsive
39. vulnerable to man_____te *v.* to influence or control something or someone to your advantage, often in an unfair or dishonest way
40. su_____e you're right *v.* to think that something is likely to be actual or possible
41. pa_____t with weight loss *n.* a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic
42. new and com_____ng evidence *adj.* arousing strong and irresistible interest, attention, or admiration
43. ex_____t a bad attitude *v.* to show something in public for people to enjoy or to provide them with information

ANSWERS: 32. cavity, 33. drag, 34. recreate, 35. invention, 36. realistic, 37. improve, 38. interactive, 39. manipulate, 40. suppose, 41. patient, 42. compelling, 43. exhibit

44. le__r for reform *n.* a handle used to operate a vehicle or a machine; a rigid bar resting on a pivot so that one end of it can be pushed or pulled easily
45. an int_____ve device *adj.* acting reciprocally; mutually responsive
46. in_____e a high degree of risk *v.* to include or affect someone or something as a necessary part of something else
47. pho_____ph album *n.* a picture or image that is produced by a camera; a visual representation or record of a person, object, or scene that has been captured electronically or on film
48. a brief ex_____t from the book *n.* a short passage taken from a book, piece of music, etc.; a substance obtained from something through a specific process; (verb) to obtain from something or to remove something by effort or force
49. de___l hygiene *adj.* of or relating to teeth
50. ack_____ge the deed *v.* to accept or admit the existence, reality, or truth of something; to accept that someone or something has a particular authority or quality; to express obligation, thanks, or gratitude for someone's help, commitment, etc.;
51. en_____er a crisis *v.* to face something, particularly something unpleasant or difficult, while attempting to do something else; to meet, especially unexpectedly

ANSWERS: 44. lever, 45. interactive, 46. involve, 47. photograph, 48. extract, 49. dental, 50. acknowledge, 51. encounter

52. energy-ef_____nt appliances *adj.* performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials
53. de_____e from the norm *v.* to depart from an established course or plan; to change direction or take a different route or approach
54. c___l an arm *v.* to wind something in a spiral or helical shape; to create a coil or coil-like shape; to group or organize something closely together in a circular or spiral pattern
55. consult a de_____t *n.* a person who is qualified and licensed to treat people's teeth
56. high-precision acc_____ter *n.* a device that measures acceleration or changes in motion, typically used in aerospace, automotive, and other engineering applications to monitor and control movement or to measure things like speed or vibration
57. de_____t smuggling across borders *v.* to find or recognize something, especially something difficult to see, hear, etc.
58. in_____ue against his rival *v.* to make someone interested, especially by being strange, unusual, or mysterious; to make a secret plan with other people to harm someone
59. de_____p a strategy *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created

ANSWERS: 52. efficient, 53. deviate, 54. coil, 55. dentist, 56. accelerometer, 57. detect, 58. intrigue, 59. develop

60. a gear change le__r *n.* a handle used to operate a vehicle or a machine; a rigid bar resting on a pivot so that one end of it can be pushed or pulled easily
61. en_____er a storm *v.* to face something, particularly something unpleasant or difficult, while attempting to do something else; to meet, especially unexpectedly
62. suffer st___e *n.* a medical condition in which poor blood flow to the brain causes cell death; the act of swinging or striking at a ball with a club, racket, etc.
63. price of pr____us metals *adj.* uncommon and extremely valuable
64. spare co_____nts for cars *n.* one of several parts that combines with others to form something bigger
65. acc_____ter reading *n.* a device that measures acceleration or changes in motion, typically used in aerospace, automotive, and other engineering applications to monitor and control movement or to measure things like speed or vibration
66. s__k fabric *n.* a fine, strong, soft, lustrous fiber produced by silkworms in making cocoons and collected to make thread and fabric
67. a multivitamin ta____t *n.* a small flat electronic device used for browsing the internet, reading, writing, or playing games; a small, solid pill of medicine

ANSWERS: 60. lever, 61. encounter, 62. stroke, 63. precious, 64. component, 65. accelerometer, 66. silk, 67. tablet

68. ta___t keyboard *n.* a small flat electronic device used for browsing the internet, reading, writing, or playing games; a small, solid pill of medicine
69. tell a com_____ng story *adj.* arousing strong and irresistible interest, attention, or admiration
70. a de_____t's office *n.* a person who is qualified and licensed to treat people's teeth
71. a person who is sus_____us *adj.* making you feel that someone has done something wrong, illegal, or dishonest without any evidence
72. def_____ly become a problem *adv.* without any question and beyond doubt; clearly
73. tax br_____t *n.* projecting support or fixture used to attach or bear weight; a small shelf or ledge; a punctuation mark ([]) used to enclose words, numbers, or symbols
74. st___y situation *adj.* made of or covered with an adhesive substance; hot or warm and humid
75. an emotional ju_____nt *n.* the ability to form valuable opinions and make reasonable decisions
76. ack_____ge his help *v.* to accept or admit the existence, reality, or truth of something; to accept that someone or something has a particular authority or quality; to express obligation, thanks, or gratitude for someone's help, commitment, etc.;
77. ef_____nt operation *adj.* performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials

ANSWERS: 68. tablet, 69. compelling, 70. dentist, 71. suspicious, 72. definitely, 73. bracket, 74. sticky, 75. judgment, 76. acknowledge, 77. efficient

78. en____er shortage *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
79. col_____te with the police *v.* to work with someone else to produce or achieve something
80. 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
81. a mo__r mechanic *n.* a device that converts electricity, fuel, etc. into movement and makes a machine, vehicle, etc. work
82. de____p a skill *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
83. oil on ca____s *n.* the heavy, closely woven fabric used for making tents, sails, etc. and by artists for painting on
84. radioactive de__y *n.* the process or state of rotting or decomposition by natural causes such as the action of bacteria and fungi; (verb) to rot or decompose through natural causes

ANSWERS: 78. engineer, 79. collaborate, 80. process, 81. motor, 82. develop, 83. canvas, 84. decay

85. in_____e a lot of paperwork *v.* to include or affect someone or something as a necessary part of something else
86. medical l_b *n.* a workplace for the conduct of scientific research; a laboratory
87. cl_____al surgery *adj.* of or relating to the examination and treatment of patients rather than theoretical or laboratory studies
88. a good grounding in mat_____cs *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
89. c_e card *n.* a signal, gesture, or action that provides information or direction for someone else to act or respond; a reminder or prompt for someone to do something
90. ex_____t a great talent *v.* to show something in public for people to enjoy or to provide them with information
91. a civil en_____er *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
92. ta_____e stimulation *adj.* relating to the sense of touch; tangible or perceptible through the sense of touch
93. take ad_____ge of his weak points *n.* a condition or circumstance that puts one in a favorable or superior position; a beneficial feature or asset that someone or something has
94. pr_____e analyses *adj.* sharply exact or accurate or delimited

ANSWERS: 85. involve, 86. lab, 87. clinical, 88. mathematics, 89. cue, 90. exhibit, 91. engineer, 92. tactile, 93. advantage, 94. precise

95. pho_____ph memories *n.* a picture or image that is produced by a camera; a visual representation or record of a person, object, or scene that has been captured electronically or on film
96. pr_____us information *adj.* uncommon and extremely valuable
97. l_b instrument *n.* a workplace for the conduct of scientific research; a laboratory
98. mat_____cs competition *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
99. s__f the Internet *v.* to ride on or through waves while standing or lying down on a board or other object; to search or browse the Internet or other computer networks in a casual or aimless manner
100. the influence of mec_____al action *adj.* operated by a machine, relating to or concerned with machinery or tools
101. ca_____e a glimpse *v.* to catch a person or an animal and confine them in an area which they cannot escape
102. Peruvian ar_____cts *n.* a person-made object, especially one of historical or cultural interest
103. c__l wire *v.* to wind something in a spiral or helical shape; to create a coil or coil-like shape; to group or organize something closely together in a circular or spiral pattern
104. score an ad_____ge *n.* a condition or circumstance that puts one in a favorable or superior position; a beneficial feature or asset that someone or something has

ANSWERS: 95. photograph, 96. precious, 97. lab, 98. mathematics, 99. surf, 100. mechanical, 101. capture, 102. artifact, 103. coil, 104. advantage

105. in_____ue him *v.* to make someone interested, especially by being strange, unusual, or mysterious; to make a secret plan with other people to harm someone
106. en___l coating *n.* a hard, glossy coating that is applied to surfaces such as metal, glass, or ceramics to protect them from wear, corrosion, or weathering; the hard, white outer layer of teeth
107. col_____ion between companies *n.* the act or situation of working together to create or produce something
108. s__k road *n.* a fine, strong, soft, lustrous fiber produced by silkworms in making cocoons and collected to make thread and fabric
109. key co_____nt *n.* one of several parts that combines with others to form something bigger
110. fa_____te the young *v.* to attract and hold the attention of someone deeply and irresistibly
111. su_____e beforehand *v.* to think that something is likely to be actual or possible
112. ha___c feedback *adj.* of or relating to or involving the sense of touch
113. kin_____ic sense *adj.* relating to the sense of movement or muscle tension
114. in_____ce between gas and liquid *n.* (computer science) a program that controls a display for the user and that allows the user to interact with the system; (chemistry) a surface forming a common boundary between two things

ANSWERS: 105. intrigue, 106. enamel, 107. collaboration, 108. silk, 109. component, 110. fascinate, 111. suppose, 112. haptic, 113. kinesthetic, 114. interface

115. ha_____ld device *adj.* designed to be held in one hand; portable, and compact enough to be carried or used on the go
116. re_____te a single country *v.* to make something that existed previously happen or appear to exist again
117. re_____on of inclusion *n.* the way two persons or groups of people feel and act toward one another
118. the il_____on of being in the forest *n.* a false idea or belief, especially about somebody or about a situation
119. fa_____te the public *v.* to attract and hold the attention of someone deeply and irresistibly
120. botanical ex_____t *n.* a short passage taken from a book, piece of music, etc.; a substance obtained from something through a specific process; (verb) to obtain from something or to remove something by effort or force
121. man_____te figures *v.* to influence or control something or someone to your advantage, often in an unfair or dishonest way
122. sympathetic vi_____on *n.* a continuous quick and slight shaking movement
123. en____l mugs *n.* a hard, glossy coating that is applied to surfaces such as metal, glass, or ceramics to protect them from wear, corrosion, or weathering; the hard, white outer layer of teeth
124. red wine st__n *v.* to discolor, defile, or tarnish something; (noun) a discoloration or dirty mark on a surface that is difficult to remove

ANSWERS: 115. handheld, 116. recreate, 117. relation, 118. illusion, 119. fascinate, 120. extract, 121. manipulate, 122. vibration, 123. enamel, 124. stain

125. a mec_____al style of writing *adj.* operated by a machine, relating to or concerned with machinery or tools
126. ac_____e a parking brake *v.* to cause a machine or equipment to start to work
127. st__n the carpet *v.* to discolor, defile, or tarnish something; (noun) a discoloration or dirty mark on a surface that is difficult to remove
128. DC mo__r control *n.* a device that converts electricity, fuel, etc. into movement and makes a machine, vehicle, etc. work
129. col_____te on a press release *v.* to work with someone else to produce or achieve something
130. ha_____ld camera *adj.* designed to be held in one hand; portable, and compact enough to be carried or used on the go
131. st___s pocket *n.* a thin, pointed tool used to write, draw, or select items on a touchscreen device
132. 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
133. a st___e of the putter *n.* a medical condition in which poor blood flow to the brain causes cell death; the act of swinging or striking at a ball with a club, racket, etc.

ANSWERS: 125. mechanical, 126. actuate, 127. stain, 128. motor, 129. collaborate, 130. handheld, 131. stylus, 132. process, 133. stroke

134. computer gr____cs *n.* images, designs, or drawings used in websites, books, magazines, etc.
135. int_____on among human beings *n.* the act of connecting with someone, mainly when working, playing, or spending time with them
136. the user in_____ce *n.* (computer science) a program that controls a display for the user and that allows the user to interact with the system; (chemistry) a surface forming a common boundary between two things
137. de___l care *adj.* of or relating to teeth
138. ha___c perception *adj.* of or relating to or involving the sense of touch
139. mo_____nt of troops *n.* a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively
140. common in_____on *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
141. st___y weather *adj.* made of or covered with an adhesive substance; hot or warm and humid
142. ca_____e customers' hearts *v.* to catch a person or an animal and confine them in an area which they cannot escape
143. ac_____e the circuits *v.* to cause a machine or equipment to start to work
144. re_____on between cause and effect *n.* the way two persons or groups of people feel and act toward one another

ANSWERS: 134. graphics, 135. interaction, 136. interface, 137. dental, 138. haptic, 139. movement, 140. invention, 141. sticky, 142. capture, 143. actuate, 144. relation

145. ta_____e feedback *adj.* relating to the sense of touch; tangible or perceptible through the sense of touch
146. kin_____ic feedback *adj.* relating to the sense of movement or muscle tension
147. reh_____ate wildlife *v.* to restore to good health or physical condition; to help someone return to a normal life, especially after a period of illness, addiction, or imprisonment
148. de_____e from the plan *v.* to depart from an established course or plan; to change direction or take a different route or approach
149. br_____t placement *n.* projecting support or fixture used to attach or bear weight; a small shelf or ledge; a punctuation mark ([]) used to enclose words, numbers, or symbols

ANSWERS: 145. tactile, 146. kinesthetic, 147. rehabilitate, 148. deviate, 149. bracket

Session 3: Fill in the Blanks

1. She wore a _____ dress to the party.
n. a fine, strong, soft, lustrous fiber produced by silkworms in making cocoons and collected to make thread and fabric

2. The dead body was in an advanced state of _____.
n. the process or state of rotting or decomposition by natural causes such as the action of bacteria and fungi; (verb) to rot or decompose through natural causes

3. A desire for success _____ her.
v. to cause a machine or equipment to start to work

4. The player controls the game with a joystick or other _____ device.
adj. of or relating to or involving the sense of touch

5. Her _____ are consistently rational and sensible.
n. the ability to form valuable opinions and make reasonable decisions

6. The investigation _____ several government agencies and is expected to take several months.
v. to include or affect someone or something as a necessary part of something else

7. A peculiar _____ material coated the foliage.
adj. made of or covered with an adhesive substance; hot or warm and humid

8. The paper is _____ worth reading thoroughly.
adv. without any question and beyond doubt; clearly

ANSWERS: 1. silk, 2. decay, 3. actuated, 4. haptic, 5. judgments, 6. involves, 7. sticky, 8. definitely

9. Necessity is the mother of _____.
- n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
10. I'm prepared to _____ challenges throughout this adventure.
- v.* to face something, particularly something unpleasant or difficult, while attempting to do something else; to meet, especially unexpectedly
11. Life is a vast _____ you should put as much paint on it as possible.
- n.* the heavy, closely woven fabric used for making tents, sails, etc. and by artists for painting on
12. The _____ of the two groups is good for brainstorming.
- n.* the act of connecting with someone, mainly when working, playing, or spending time with them
13. We will attempt to _____ some of your suggestions into our future strategy.
- v.* to include something as a part of a larger entity
14. I was able to _____ the moment on film.
- v.* to catch a person or an animal and confine them in an area which they cannot escape
15. The _____ team worked quickly to save the patient's life.
- adj.* relating to the treatment of illness or injuries; relating to the practice of medicine
16. _____ displaced part of the mechanism.
- n.* a continuous quick and slight shaking movement

ANSWERS: 9. invention, 10. encounter, 11. canvas;, 12. interaction, 13. incorporate, 14. capture, 15. medical, 16. Vibration

17. Her _____ manner relaxed everyone there.

adj. having or showing a kindly or tender nature; soft and mild

18. The dentist recommended using toothpaste with extra _____ protection to prevent cavities.

n. a hard, glossy coating that is applied to surfaces such as metal, glass, or ceramics to protect them from wear, corrosion, or weathering; the hard, white outer layer of teeth

19. I found an old _____ of my grandparents from their wedding day.

n. a picture or image that is produced by a camera; a visual representation or record of a person, object, or scene that has been captured electronically or on film

20. The magic tricks _____ the children.

v. to attract and hold the attention of someone deeply and irresistibly

21. I am going to the family _____ to get my teeth cleaned.

n. a person who is qualified and licensed to treat people's teeth

22. I have a _____ appointment at 2 pm to get my teeth cleaned.

adj. of or relating to teeth

23. The partnership program requires a mutual _____ between both agencies.

n. the act or situation of working together to create or produce something

24. The _____ sensation of the fabric was soft and smooth to the touch.

adj. relating to the sense of touch; tangible or perceptible through the sense of touch

ANSWERS: 17. gentle, 18. enamel, 19. photograph, 20. fascinated, 21. dentist, 22. dental, 23. collaboration, 24. tactile

25. It's important not to _____ from the established safety procedures.
v. to depart from an established course or plan; to change direction or take a different route or approach
26. The _____ of the dancers on stage was graceful and elegant.
n. a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively
27. This initiative will be a _____ for increasing company sales.
n. a handle used to operate a vehicle or a machine; a rigid bar resting on a pivot so that one end of it can be pushed or pulled easily
28. His _____ presentation deeply moved everyone.
adj. arousing strong and irresistible interest, attention, or admiration
29. He could no longer tell the difference between _____ and reality.
n. a false idea or belief, especially about somebody or about a situation
30. The content is _____ and informative for me.
adj. sharply exact or accurate or delimited
31. The doctor carefully examined the _____ medical history.
n. a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic
32. My dream is to become a great _____ designer like her.
n. images, designs, or drawings used in websites, books, magazines, etc.

ANSWERS: 25. deviate, 26. movement, 27. lever, 28. compelling, 29. illusion, 30. precise, 31. patient's, 32. graphics

33. Anesthetize the gum before _____ the teeth.
- n.* a short passage taken from a book, piece of music, etc.; a substance obtained from something through a specific process; (verb) to obtain from something or to remove something by effort or force
34. We want to _____ ties between our two countries.
- v.* to make or become better
35. He _____ the heavy suitcase behind him as he walked.
- v.* to pull or haul with force
36. Other technology industries _____ similarly explosive growth.
- v.* to show something in public for people to enjoy or to provide them with information
37. What do you _____ the culprit's motive was?
- v.* to think that something is likely to be actual or possible
38. One of the main _____ of the new product is its increased efficiency.
- n.* a condition or circumstance that puts one in a favorable or superior position; a beneficial feature or asset that someone or something has
39. The museum has a vast collection of Greek _____.
- n.* a person-made object, especially one of historical or cultural interest
40. We must _____ a new system to streamline our workflow and increase efficiency.
- v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created

ANSWERS: 33. extracting, 34. improve, 35. dragged, 36. exhibit, 37. suppose, 38. advantages, 39. artifacts, 40. develop

41. The phone's _____ measures its movement and orientation in three-dimensional space.
- n.* a device that measures acceleration or changes in motion, typically used in aerospace, automotive, and other engineering applications to monitor and control movement or to measure things like speed or vibration
42. I have a _____ in one of my molars and must schedule a dentist appointment.
- n.* an empty space or hollowness within a solid object, especially within the body, such as a tooth or bone; a hole or depression in a surface or the ground
43. Many artists prefer to use a _____ over their fingers when drawing on a digital canvas.
- n.* a thin, pointed tool used to write, draw, or select items on a touchscreen device
44. The doctor ordered an _____ to see if there was any damage to the bones.
- n.* a type of electromagnetic radiation that has a wavelength shorter than visible light allowing hidden objects such as bones and organs inside the body to be photographed
45. The _____ will repair my telephone tomorrow morning.
- n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
46. The organization works to _____ drug addicts and help them rebuild their lives.
- v.* to restore to good health or physical condition; to help someone return to a normal life, especially after a period of illness, addiction, or imprisonment
47. He has a flair for _____.
- n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement

ANSWERS: 41. accelerometer, 42. cavity, 43. stylus, 44. X-ray, 45. engineer, 46. rehabilitate, 47. mathematics

48. The researchers try to discover a common _____ in all types of successful organizations.
- n.* one of several parts that combines with others to form something bigger
49. Detergent weakens the surface tension at the _____ of two liquids.
- n.* (computer science) a program that controls a display for the user and that allows the user to interact with the system; (chemistry) a surface forming a common boundary between two things
50. I'll _____ the online store to see if I can find that item in a different color.
- v.* to ride on or through waves while standing or lying down on a board or other object; to search or browse the Internet or other computer networks in a casual or aimless manner
51. She agreed to _____ with him in creating new artwork.
- v.* to work with someone else to produce or achieve something
52. The artist's innovative style of work _____ me.
- v.* to make someone interested, especially by being strange, unusual, or mysterious; to make a secret plan with other people to harm someone
53. The Prime Minister will pay a courtesy visit to the Nobel laureate's _____.
- n.* a workplace for the conduct of scientific research; a laboratory
54. She _____ the atmosphere of the pre-war age with her stage setting.
- v.* to make something that existed previously happen or appear to exist again
55. A _____ engineer is still in demand in many companies.
- adj.* operated by a machine, relating to or concerned with machinery or tools

ANSWERS: 48. component, 49. interface, 50. surf, 51. collaborate, 52. intrigues, 53. lab, 54. recreated, 55. mechanical

56. She received special _____ training at the hospital.

adj. of or relating to the examination and treatment of patients rather than theoretical or laboratory studies

57. The technician used a _____ tool to fix the machine.

adj. designed to be held in one hand; portable, and compact enough to be carried or used on the go

58. The new _____ device has a faster processor and better graphics than its predecessor.

n. a small flat electronic device used for browsing the internet, reading, writing, or playing games; a small, solid pill of medicine

59. Please tell me how to _____ this computer.

v. to influence or control something or someone to your advantage, often in an unfair or dishonest way

60. We carefully examine each _____ transaction report we receive.

adj. making you feel that someone has done something wrong, illegal, or dishonest without any evidence

61. The allegations of corruption _____ her reputation, and she struggled to regain public trust.

v. to discolor, defile, or tarnish something; (noun) a discoloration or dirty mark on a surface that is difficult to remove

62. I need to hang these shelves with the help of some sturdy _____.

n. projecting support or fixture used to attach or bear weight; a small shelf or ledge; a punctuation mark ([]) used to enclose words, numbers, or symbols

ANSWERS: 56. clinical, 57. handheld, 58. tablet, 59. manipulate, 60. suspicious, 61. stained, 62. brackets

63. The security camera has _____ four intruders.

v. to find or recognize something, especially something difficult to see, hear, etc.

64. 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

65. The new video game has an _____ storyline that allows players to make choices that affect the game's outcome.

adj. acting reciprocally; mutually responsive

66. The _____ learning style focuses on physical movement and hands-on activities.

adj. relating to the sense of movement or muscle tension

67. The industrial _____ laws were passed with little to no alteration.

n. the way two persons or groups of people feel and act toward one another

68. The director gave the actor a ____ to begin the scene.

n. a signal, gesture, or action that provides information or direction for someone else to act or respond; a reminder or prompt for someone to do something

69. The new washing machine is much more _____ than the old one.

adj. performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials

70. We cannot afford to squander _____ time.

adj. uncommon and extremely valuable

ANSWERS: 63. detected, 64. process, 65. interactive, 66. kinesthetic, 67. relations, 68. cue, 69. efficient, 70. precious

71. He never _____ his fault.

- v.* to accept or admit the existence, reality, or truth of something; to accept that someone or something has a particular authority or quality; to express obligation, thanks, or gratitude for someone's help, commitment, etc.;

72. This year's extreme heat has resulted in many heat _____ cases.

- n.* a medical condition in which poor blood flow to the brain causes cell death; the act of swinging or striking at a ball with a club, racket, etc.

73. Energy-efficient _____ are needed to maximize the cruising distance of electric vehicles.

- n.* a device that converts electricity, fuel, etc. into movement and makes a machine, vehicle, etc. work

74. She carefully _____ the rope so that it wouldn't tangle.

- v.* to wind something in a spiral or helical shape; to create a coil or coil-like shape; to group or organize something closely together in a circular or spiral pattern

75. That story was so _____ and it was scary.

- adj.* having or showing a sensible and practical idea that is possible to achieve

ANSWERS: 71. acknowledged, 72. stroke, 73. motors, 74. coiled, 75. realistic,