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Vocabulary Builder Reference from...

Joshua W. Pate: *The fascinating science of phantom limbs* | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

vast

adj. enormous in size, number, amount, or quantity

synonym: expansive, extended, boundless

(1) **vast** majority, (2) **vast** desert

A **vast** audience viewed the broadcast.

limb

n. an arm and leg of a person or animal

synonym: arm, appendage, branch

(1) a prosthetic **limb**, (2) **limb** amputation

You should wrap the bandage carefully and firmly around the injured **limb**.

vague

adj. not clearly expressed or understood

synonym: ambiguous, imprecise, dim

(1) **vague** idea, (2) make a **vague** answer

The **vague** rumor turned out to be false.

lifelike

adj. resembling or appearing similar to something alive or real, often realistically or vividly; convincing or authentic in appearance or behavior

synonym: realistic, naturalistic, vivid

(1) **lifelike** painting, (2) **lifelike** animation

The artist created a **lifelike** sculpture of a famous politician

for the town square.

- flex** v. to show off one's strength, power, or possessions; to bend or be capable of bending easily
synonym: bend, stretch, extend
(1) **flex** a finger, (2) **flex** diplomatic muscle
The gymnast was able to **flex** his muscles to perform the difficult routine.
- phantom** n. a ghost or a spirit of a dead person; something existing only in your imagination or perception
synonym: ghost, spirit, apparition
(1) a **phantom** company, (2) **phantom** limb pain
The police frantically searched for clues to the **phantom** killer.
- chafe** v. to rub or graze against something, causing irritation, soreness, or annoyance; to become irritated or annoyed due to frustration or impatience
synonym: irritate, rub, abrade
(1) **chafed** against my shoulders, (2) **chafe** under pressure
The new shoes are starting to **chafe** my feet after walking for hours.
- throb** v. to beat with a strong, regular rhythm, as a pulse or a heart
synonym: pulse, beat, pound
(1) **throb** at the thought of the accident, (2) **throb** with excitement
The wound continued to **throb** with pain, despite the medication.
- ingrown** adj. referring to a hair or nail that has grown into the skin surrounding it, causing irritation or infection
synonym: embedded, imbedded, encased
(1) **ingrown** pimple, (2) **ingrown** hair

An **ingrown** toenail can be very painful and requires medical attention.

toenail

n. the hard, flat covering on the end of a toe, made of layers of dead skin cells; often requires regular grooming and trimming to maintain proper hygiene and appearance

synonym : nail, claw, hoof

(1) **toenail** fungus, (2) ingrown **toenail**

I accidentally stubbed my toe and broke my **toenail**.

astonishing

adj. surprising or shocking; difficult to believe

synonym : surprising, shocking, astounding

(1) **astonishing** achievement, (2) make **astonishing** gains

The news of her sudden death was **astonishing** to everyone who knew her.

occasionally

adv. now and then; sometimes but not often

synonym : periodically, sometimes, from time to time

(1) **occasionally** dine with friends, (2) **occasionally** change the routine

She still **occasionally** writes a short romance novel.

accuracy

n. the state or degree of being exact or correct; the ability to perform something with proficiency and without mistake

synonym : precision, exactness, truthfulness

(1) degree of **accuracy**, (2) the **accuracy** of his compass

To assure **accuracy**, I recommend investing in high-quality test kits.

apparition

n. the appearance of a ghost or ghost-like image; a sudden and unexpected appearance of something or someone

synonym : ghost, phantom, specter

(1) **apparition** ghost, (2) mysterious **apparition**

Walking through the graveyard at night, I saw an eerie

apparition of a ghostly figure.

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**.

imply

v. to indicate the truth or existence of something without referring to it

synonym: hint, indicate, denote

(1) **imply** a strong correlation, (2) **imply** the presence of alien

The salespeople speak in technical terms to **imply** that they are more knowledgeable than the customer.

amputation

n. the act of cutting off a part of the body surgically

(1) **amputation** of leg, (2) hand **amputation**

Amputation of the limb is a last resort for the patient.

flesh

n. the soft substance composing the body of a person or animal, as opposed to bones and other structures

synonym: meat, muscle, tissue

(1) grow in **flesh**, (2) **flesh** eating

The **flesh** of the fruit is sweet and juicy.

predecessor

n. a person who held a position or office before the current holder

synonym: antecedent, forerunner, precursor

(1) the words of a **predecessor**, (2) **predecessor** model

The new CEO is the **predecessor** of the former CEO.

pathway

n. a track that constitutes or serves as a path; an approach or a way of doing something

synonym: route, footpath, trail

(1) **pathway** to understanding, (2) cellular signaling

pathways

When the first molecule in the **pathway** receives a signal, it activates other molecules.

neuron

n. a cell that is specialized to carry information within the brain and between the brain and other parts of the body

synonym: nerve cell

(1) excite the **neurons**, (2) **neuron** cell body

Our body transfers information along each **neuron** using an electrical impulse.

responsible

adj. answerable or accountable for something within one's power, control, or management

synonym: accountable, answerable, liable

(1) **responsible** action, (2) **responsible** for a customer service

She's a **responsible** pet owner who ensures her dog gets enough exercise and a healthy diet.

fingertip

n. the end or tip of a finger

(1) apply **fingertip** pressure, (2) burn my **fingertip**

The archaeologist ran his **fingertips** along the pattern of the tombstones.

neural

adj. of or relating to a nerve or the nervous system that includes the brain

synonym: sensory, neuronic, nervous

(1) **neural** stem cells, (2) **neural** networks in AI

There was a disturbance of **neural** function.

spinal

adj. of or relating to the spine (= the long bone in the body's back)

(1) **spinal** injury, (2) brain and **spinal** cord

The surgeon carefully confirmed how to remove the tumor to avoid damaging the **spinal** nerves.

cord

n. a strong, thick, or thin thread or rope; a piece of plastic-coated wire used to transport electricity to a piece of equipment

synonym : wire, cable, string

(1) spinal **cord**, (2) electrical **cord**

Your spinal **cord** is located deep within your body.

sever

v. to break or separate something by cutting, especially suddenly and forcibly

synonym : cut apart, separate, detach

(1) **sever** a rope, (2) **sever** a positive relationship

He **severed** a branch from a tree quickly.

nervous

adj. worried and anxious about something; relating to the nerves

synonym : neural, anxious, uneasy

(1) development of the **nervous** system, (2) get **nervous**

He suffers from **nervous** breakdowns.

sensitive

adj. able to notice slight changes, signals, or influences; able to feel or perceive other's feelings; susceptible to the things people say or do

synonym : exposed, susceptible, keen

(1) **sensitive** documents, (2) baby with **sensitive** skin

The teacher is very **sensitive** to children's feelings.

transmit

v. to send or forward an electronic signal; to pass something from one person or thing to another

synonym : convey, share, dispatch

(1) **transmit** the disease, (2) **transmit** information

Parents often **transmit** their characteristics to their children.

distress

n. a feeling of great worry, sadness, pain, or discomfort

synonym : discomfort, despair, misery

(1) a signal of **distress**, (2) emotional **distress**

She has been in great **distress** since she was heartbroken.

- 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**.
- circumstance** *n.* the specific conditions or events that surround a particular situation or occurrence
synonym: condition, context, environment
(1) **circumstance** of birth, (2) **circumstance** of injury
She explained the **circumstances** surrounding the accident.
- curtail** *v.* to reduce or restrict something; to shorten or truncate; to cut short or bring to an abrupt end
synonym: restrict, limit, cut back
(1) **curtail** spending, (2) **curtail** freedom
Due to budget constraints, the company had to **curtail** its marketing campaign for the new product.
- dorsal** *adj.* located on the back, particularly the upper surface of an animal's body; related to or pertaining to the back
synonym: abaxial, spinal, back
(1) **dorsal** surface, (2) **dorsal** root
The shark's **dorsal** fin is a distinguishing feature.
- horn** *n.* a hard, pointed, often curved part that grows on the top of the heads of some animals, such as sheep and cows; a noisemaker or musical instrument that makes a loud noise when you blow through it
synonym: cornet, funnel, alarm
(1) a handle of **horn**, (2) **horn** of a vehicle
He enjoyed hearing the tootles of their **horns** with beer.
- inhibit** *v.* to prevent something, such as an action, process, etc., from happening or make it less likely to happen than normal
synonym: deter, hinder, impede

(1) **inhibit** desires, (2) **inhibit** tumor growth

Excessive parental interference may **inhibit** children's eagerness to learn.

intensify

v. to increase or make something increase in extent or strength

synonym: amplify, boost, strengthen

(1) **intensify** diplomatic efforts, (2) **intensify** a good relationship

Rebels have pledged to **intensify** the armed struggle against the dictatorship.

somatosensor

n. a type of sensory receptor in the skin, muscles, tendons, and joints that respond to touch, pressure, temperature, or pain stimuli and sends signals to the brain for processing in the somatosensory cortex

synonym: mechanoreceptor, touch receptor, sensory receptor

(1) **somatosensor** neuron, (2) **somatosensor** cortex

The **somatosensor** in your skin detects touch, pressure, and temperature changes.

cortex

n. the outermost layer of an organ, especially the brain

(1) **cortex** cells, (2) visual **cortex** neuron

The cerebral **cortex** consists of six layers.

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.

represent

v. to speak, act, or be present on behalf of another person or group; to form or constitute

synonym : depict, express, describe

(1) **represent** by a diagram, (2) the characters that **represent** numbers

We elected him to **represent** us at the international conference.

cortical

adj. relating to or located in the outer layer of an organ or body structure, particularly the cortex of the brain

(1) **cortical** neurons, (2) **cortical** activity

The MRI showed activity in the **cortical** region of the patient's brain.

homunculus

n. a representation or model of a tiny human being, often used to illustrate or represent the senses or motor functions of the human body

synonym : little man, dwarf, midget

(1) **homunculus** diagram, (2) virtual **homunculus**

The **homunculus** theory suggests that the human brain contains a small, "human-like" figure that controls our voluntary movements and sensations.

proportion

n. a part, share, or amount of something considered in comparative relation to a whole

synonym : ratio, balance, consonance

(1) direct **proportion**, (2) a building of vast **proportions**

He is more concerned about the **proportion** of his body fat than usual because of an upcoming bodybuilding competition.

representation

n. the act of speaking, acting, or being present on behalf of someone officially; a statement of facts and reasons made in appealing or protesting

synonym : delegacy, manifestation, expression

(1) sales **representation**, (2) binary **representation**

A person who has been declared incompetent should have legal **representation**.

devote

v. to commit or dedicate oneself or one's time, effort, or energy to a particular task or purpose

synonym: commit, dedicate, apply

(1) **devote** all of my energies, (2) **devote** my own life

He **devoted** himself to studying the history of ancient civilizations.

specific

adj. clearly defined or particular to a certain thing or situation; distinct, explicit, and precise

synonym: particular, definite, distinct

(1) **specific** instructions, (2) industry- **specific** regulations

The scientist conducted a study that provided **specific** details about the species' behavior.

shrink

v. to become smaller, or to make something smaller in size or amount

synonym: decrease, diminish, shy away

(1) **shrink** the tumor, (2) **shrink** with fear

This shirt will **shrink** in the wash.

violin

n. a four-stringed wooden musical instrument held against the neck and played by passing a bow across the strings

synonym: fiddle

(1) **violin** soloist, (2) play the **violin**

The cello is a member of the **violin** family.

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.

alert

v. to warn or arouse to a sense of danger; (adjective) paying close attention or being in a state of readiness for action

synonym: warn, inform, (adjective) vigilant

(1) **alert** consumers to the dangers, (2) **alert** system

The company's cybersecurity team **alerted** the CEO to potential threats.

necessarily

adv. in an essential manner; in such a way as could not be otherwise

synonym : inevitable, certainly, automatically

(1) not **necessarily** a problem, (2) **necessarily** true

This accident was something that happened **necessarily**.

disappear

v. to cease to exist or be visible

synonym : fade, evaporate, vanish

(1) **disappear** without a trace, (2) **disappear** after a week

They watched the train **disappear** into the distance.

treatment

n. the way in which someone deals with or behaves towards someone or something; medical care provided to a patient for an injury or illness.

synonym : remedy, antidote, medicine

(1) first-aid **treatment**, (2) **treatment** by diet

The primary purpose of the **treatment** is pain relief.

combination

n. a collection of things that have been combined; an assemblage of separate parts or qualities

synonym : blend, hybrid, compounding

(1) genic **combinations**, (2) **combination** number

The **combination** to the safe was a secret.

therapy

n. the act of caring for someone through medication, remedial training, etc.

synonym : antidote, medicine, treatment

(1) **therapy** for a patient, (2) field of gene **therapy**

I underwent aversion **therapy** for my addiction to alcohol.

medication

n. a drug or other form of medicine that treats, prevents, or alleviates the symptoms of the disease

synonym : cure, drug, medicine

(1) antibiotic **medication**, (2) **medication** by mouth

The pharmacist not only prescribes the **medication** but also guides its proper use.

prosthetic

adj. of or relating to an artificial part of the body, such as a limb, a heart, or a breast implant

(1) have **prosthetic** arms, (2) **prosthetic** limbs

New **prosthetic** joints are less prone to metal poisoning.

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.

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.

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.

intact

adj. undamaged and complete

synonym: flawless, unchanged, entire

(1) **intact** brain, (2) **intact** forestland

Despite the scandals, his reputation remained **intact**.

virtual

adj. being actually such in almost every respect; existing in essence or effect though not in actual fact

synonym : practical

(1) a **virtual** image, (2) trading of **virtual** currencies

She is the **virtual** president of the company.

primarily

adv. mainly

synonym : largely, mainly, mostly

(1) intended **primarily** for young people, (2) **primarily** affect adults

All peaceful cooperation is based **primarily** on mutual trust.

conceptual

adj. related to or founded on ideas, principles

synonym : theoretical, abstract, ideational

(1) **conceptual** art, (2) new **conceptual** framework

He has absolutely no **conceptual** comprehension of maths.

extension

n. a thing that is added to something to make it longer, larger, or wider; an educational opportunity provided by colleges and universities to people who are not enrolled as regular students; an additional telephone set that is connected to the same telephone line

synonym : addition, augment, supplement

(1) time **extension**, (2) telephone **extension**

They are building an **extension** to the house to add more bedrooms.

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.

intuitive

adj. obtained through feelings rather than facts or proof

synonym : involuntary, instinctive, innate

(1) **intuitive** eating, (2) **intuitive** judgment

I had an **intuitive** feeling that I might be pregnant.

amputee

n. a person who has had an arm or a leg cut off

(1) quadruple **amputee**, (2) **amputee** runner

Amputees often experience an illusion of a phantom limb.

typical

adj. having the usual characteristics or traits of a specific group of things

synonym: characteristic, usual, distinctive

(1) **typical** leader, (2) fairly **typical** symptoms

This artwork is **typical** of her work.

associate

v. to mentally connect someone or something with someone or something else

synonym: tie in, link, consociate

(1) **associate** alcohol with gambling, (2) **associate** with people widely

The majority of consumers **associate** this brand with quality.

applicable

adj. fit or suitable to be applied; having relevance to a person or thing

synonym: practical, usable, useful

(1) give **applicable** examples, (2) accordance with **applicable** law

This regulation is not **applicable** to minors.

insight

n. the ability to gain an accurate and deep understanding of people or situations; an accurate and deep understanding of what something is like

synonym: wisdom, discernment, understanding

(1) a profound **insight**, (2) share my **insights**

We gained various **insights** by analyzing the vast amount of data owned by the company.

perceive

v. to become aware or conscious of something through the senses

synonym: sense, discern, feel

(1) **perceive** a threat, (2) **perceive** light

Australia is widely **perceived** as having low levels of corruption.

Session 2: Spelling

1. emotional di____ss *n.* a feeling of great worry, sadness, pain, or discomfort
2. co____al activity *adj.* relating to or located in the outer layer of an organ or body structure, particularly the cortex of the brain
3. sh____k the tumor *v.* to become smaller, or to make something smaller in size or amount
4. ty____l leader *adj.* having the usual characteristics or traits of a specific group of things
5. 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
6. in____t brain *adj.* undamaged and complete
7. di____ar without a trace *v.* to cease to exist or be visible
8. de____e all of my energies *v.* to commit or dedicate oneself or one's time, effort, or energy to a particular task or purpose
9. trading of vi____l currencies *adj.* being actually such in almost every respect; existing in essence or effect though not in actual fact
10. co____x cells *n.* the outermost layer of an organ, especially the brain

ANSWERS: 1. distress, 2. cortical, 3. shrink, 4. typical, 5. develop, 6. intact, 7. disappear, 8. devote, 9. virtual, 10. cortex

11. vulnerable to man_____te *v.* to influence or control something or someone to your advantage, often in an unfair or dishonest way
12. h__n of a vehicle *n.* a hard, pointed, often curved part that grows on the top of the heads of some animals, such as sheep and cows; a noisemaker or musical instrument that makes a loud noise when you blow through it
13. as_____te with people widely *v.* to mentally connect someone or something with someone or something else
14. cir_____nce of birth *n.* the specific conditions or events that surround a particular situation or occurrence
15. pe_____ve light *v.* to become aware or conscious of something through the senses
16. ne___l networks in AI *adj.* of or relating to a nerve or the nervous system that includes the brain
17. in_____n hair *adj.* referring to a hair or nail that has grown into the skin surrounding it, causing irritation or infection
18. cu_____l spending *v.* to reduce or restrict something; to shorten or truncate; to cut short or bring to an abrupt end
19. v__t desert *adj.* enormous in size, number, amount, or quantity
20. f__x a finger *v.* to show off one's strength, power, or possessions; to bend or be capable of bending easily

ANSWERS: 11. manipulate, 12. horn, 13. associate, 14. circumstance, 15. perceive, 16. neural, 17. ingrown, 18. curtail, 19. vast, 20. flex

21. sales rep_____ion *n.* the act of speaking, acting, or being present on behalf of someone officially; a statement of facts and reasons made in appealing or protesting
22. con_____al art *adj.* related to or founded on ideas, principles
23. f__x diplomatic muscle *v.* to show off one's strength, power, or possessions; to bend or be capable of bending easily
24. apply fi_____ip pressure *n.* the end or tip of a finger
25. man_____te figures *v.* to influence or control something or someone to your advantage, often in an unfair or dishonest way
26. ph_____m limb pain *n.* a ghost or a spirit of a dead person; something existing only in your imagination or perception
27. pre_____or model *n.* a person who held a position or office before the current holder
28. a te_____ue in martial arts *n.* a particular way or art of doing something that needs skill
29. in_____fy a good relationship *v.* to increase or make something increase in extent or strength
30. new con_____al framework *adj.* related to or founded on ideas, principles
31. se_____ve documents *adj.* able to notice slight changes, signals, or influences; able to feel or perceive other's feelings; susceptible to the things people say or do

ANSWERS: 21. representation, 22. conceptual, 23. flex, 24. fingertip, 25. manipulate, 26. phantom, 27. predecessor, 28. technique, 29. intensify, 30. conceptual, 31. sensitive

32. without in___y *n.* harm done to a person's or an animal's body caused by an accident or an attack
33. share my in_____ts *n.* the ability to gain an accurate and deep understanding of people or situations; an accurate and deep understanding of what something is like
34. fl__h eating *n.* the soft substance composing the body of a person or animal, as opposed to bones and other structures
35. som_____sor neuron *n.* a type of sensory receptor in the skin, muscles, tendons, and joints that respond to touch, pressure, temperature, or pain stimuli and sends signals to the brain for processing in the somatosensory cortex
36. to_____l fungus *n.* the hard, flat covering on the end of a toe, made of layers of dead skin cells; often requires regular grooming and trimming to maintain proper hygiene and appearance
37. pa_____y to understanding *n.* a track that constitutes or serves as a path; an approach or a way of doing something
38. se__r a positive relationship *v.* to break or separate something by cutting, especially suddenly and forcibly
39. antibiotic med_____on *n.* a drug or other form of medicine that treats, prevents, or alleviates the symptoms of the disease
40. a ph_____m company *n.* a ghost or a spirit of a dead person; something existing only in your imagination or perception

ANSWERS: 32. injury, 33. insight, 34. flesh, 35. somatosensor, 36. toenail, 37. pathway, 38. sever, 39. medication, 40. phantom

41. app_____on ghost *n.* the appearance of a ghost or ghost-like image; a sudden and unexpected appearance of something or someone
42. cu_____l freedom *v.* to reduce or restrict something; to shorten or truncate; to cut short or bring to an abrupt end
43. the characters that re_____nt numbers *v.* to speak, act, or be present on behalf of another person or group; to form or constitute
44. excite the ne_____ns *n.* a cell that is specialized to carry information within the brain and between the brain and other parts of the body
45. in_____fy diplomatic efforts *v.* to increase or make something increase in extent or strength
46. in_____t desires *v.* to prevent something, such as an action, process, etc., from happening or make it less likely to happen than normal
47. in_____t forestland *adj.* undamaged and complete
48. fairly ty_____l symptoms *adj.* having the usual characteristics or traits of a specific group of things
49. ne_____l stem cells *adj.* of or relating to a nerve or the nervous system that includes the brain
50. play the vi_____n *n.* a four-stringed wooden musical instrument held against the neck and played by passing a bow across the strings
51. pr_____ly affect adults *adv.* mainly

ANSWERS: 41. apparition, 42. curtail, 43. represent, 44. neuron, 45. intensify, 46. inhibit, 47. intact, 48. typical, 49. neural, 50. violin, 51. primarily

52. a profound in_____t *n.* the ability to gain an accurate and deep understanding of people or situations; an accurate and deep understanding of what something is like
53. direct pro_____on *n.* a part, share, or amount of something considered in comparative relation to a whole
54. burn my fi_____ip *n.* the end or tip of a finger
55. sh___k with fear *v.* to become smaller, or to make something smaller in size or amount
56. ne___n cell body *n.* a cell that is specialized to carry information within the brain and between the brain and other parts of the body
57. 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
58. virtual hom_____us *n.* a representation or model of a tiny human being, often used to illustrate or represent the senses or motor functions of the human body
59. n__m of action *n.* something that is regarded as usual, typical, or standard
60. make ast_____ng gains *adj.* surprising or shocking; difficult to believe
61. a building of vast pro_____ons *n.* a part, share, or amount of something considered in comparative relation to a whole

ANSWERS: 52. insight, 53. proportion, 54. fingertip, 55. shrink, 56. neuron, 57. develop, 58. homunculus, 59. norm, 60. astonishing, 61. proportion

62. a prosthetic l__b *n.* an arm and leg of a person or animal
63. a fatal in___y *n.* harm done to a person's or an animal's body caused by an accident or an attack
64. visual co___x neuron *n.* the outermost layer of an organ, especially the brain
65. baby with se_____ve skin *adj.* able to notice slight changes, signals, or influences; able to feel or perceive other's feelings; susceptible to the things people say or do
66. de___e my own life *v.* to commit or dedicate oneself or one's time, effort, or energy to a particular task or purpose
67. 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
68. the words of a pre_____or *n.* a person who held a position or office before the current holder
69. im__y the presence of alien *v.* to indicate the truth or existence of something without referring to it
70. res_____le for a customer service *adj.* answerable or accountable for something within one's power, control, or management
71. th__b at the thought of the accident *v.* to beat with a strong, regular rhythm, as a pulse or a heart

ANSWERS: 62. limb, 63. injury, 64. cortex, 65. sensitive, 66. devote, 67. process, 68. predecessor, 69. imply, 70. responsible, 71. throb

72. tr____it information *v.* to send or forward an electronic signal; to pass something from one person or thing to another
73. tr_____nt by diet *n.* the way in which someone deals with or behaves towards someone or something; medical care provided to a patient for an injury or illness.
74. as_____te alcohol with gambling *v.* to mentally connect someone or something with someone or something else
75. cellular signaling pa_____ys *n.* a track that constitutes or serves as a path; an approach or a way of doing something
76. intended pr_____ly for young people *adv.* mainly
77. binary rep_____ion *n.* the act of speaking, acting, or being present on behalf of someone officially; a statement of facts and reasons made in appealing or protesting
78. hom_____us diagram *n.* a representation or model of a tiny human being, often used to illustrate or represent the senses or motor functions of the human body
79. telephone ex_____on *n.* a thing that is added to something to make it longer, larger, or wider; an educational opportunity provided by colleges and universities to people who are not enrolled as regular students; an additional telephone set that is connected to the same telephone line

ANSWERS: 72. transmit, 73. treatment, 74. associate, 75. pathway, 76. primarily, 77. representation, 78. homunculus, 79. extension

80. com_____on number *n.* a collection of things that have been combined; an assemblage of separate parts or qualities
81. occ_____lly change the routine *adv.* now and then; sometimes but not often
82. va__e idea *adj.* not clearly expressed or understood
83. co_____al neurons *adj.* relating to or located in the outer layer of an organ or body structure, particularly the cortex of the brain
84. grow in fl__h *n.* the soft substance composing the body of a person or animal, as opposed to bones and other structures
85. th__b with excitement *v.* to beat with a strong, regular rhythm, as a pulse or a heart
86. field of gene th_____y *n.* the act of caring for someone through medication, remedial training, etc.
87. al__t consumers to the dangers *v.* to warn or arouse to a sense of danger; (adjective) paying close attention or being in a state of readiness for action
88. genic com_____ons *n.* a collection of things that have been combined; an assemblage of separate parts or qualities
89. sp____l injury *adj.* of or relating to the spine (= the long bone in the body's back)
90. al__t system *v.* to warn or arouse to a sense of danger; (adjective) paying close attention or being in a state of readiness for action
91. 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

ANSWERS: 80. combination, 81. occasionally, 82. vague, 83. cortical, 84. flesh, 85. throb, 86. therapy, 87. alert, 88. combination, 89. spinal, 90. alert, 91. patient

92. amp_____on of leg *n.* the act of cutting off a part of the body surgically
93. electrical c__d *n.* a strong, thick, or thin thread or rope; a piece of plastic-coated wire used to transport electricity to a piece of equipment
94. spinal c__d *n.* a strong, thick, or thin thread or rope; a piece of plastic-coated wire used to transport electricity to a piece of equipment
95. the te_____ue applied to construction *n.* a particular way or art of doing something that needs skill
96. cir_____nce of injury *n.* the specific conditions or events that surround a particular situation or occurrence
97. med_____on by mouth *n.* a drug or other form of medicine that treats, prevents, or alleviates the symptoms of the disease
98. permanent br__n damage *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
99. li_____ke animation *adj.* resembling or appearing similar to something alive or real, often realistically or vividly; convincing or authentic in appearance or behavior
100. give app_____le examples *adj.* fit or suitable to be applied; having relevance to a person or thing
101. quadruple am_____e *n.* a person who has had an arm or a leg cut off

ANSWERS: 92. amputation, 93. cord, 94. cord, 95. technique, 96. circumstance, 97. medication, 98. brain, 99. lifelike, 100. applicable, 101. amputee

102. brain and sp___l cord *adj.* of or relating to the spine (= the long bone in the body's back)
103. ingrown to ____l *n.* the hard, flat covering on the end of a toe, made of layers of dead skin cells; often requires regular grooming and trimming to maintain proper hygiene and appearance
104. 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
105. im__y a strong correlation *v.* to indicate the truth or existence of something without referring to it
106. accordance with app_____le law *adj.* fit or suitable to be applied; having relevance to a person or thing
107. ch__ed against my shoulders *v.* to rub or graze against something, causing irritation, soreness, or annoyance; to become irritated or annoyed due to frustration or impatience
108. se__r a rope *v.* to break or separate something by cutting, especially suddenly and forcibly
109. cultural n__m *n.* something that is regarded as usual, typical, or standard
110. li_____ke painting *adj.* resembling or appearing similar to something alive or real, often realistically or vividly; convincing or authentic in appearance or behavior

ANSWERS: 102. spinal, 103. toenail, 104. patient, 105. imply, 106. applicable, 107. chafe, 108. sever, 109. norm, 110. lifelike

111. make a va__e answer *adj.* not clearly expressed or understood
112. nec_____ly true *adv.* in an essential manner; in such a way as could not be otherwise
113. get ne_____s *adj.* worried and anxious about something; relating to the nerves
114. a vi_____l image *adj.* being actually such in almost every respect; existing in essence or effect though not in actual fact
115. do____l root *adj.* located on the back, particularly the upper surface of an animal's body; related to or pertaining to the back
116. first-aid tr_____nt *n.* the way in which someone deals with or behaves towards someone or something; medical care provided to a patient for an injury or illness.
117. do____l surface *adj.* located on the back, particularly the upper surface of an animal's body; related to or pertaining to the back
118. pro_____ic limbs *adj.* of or relating to an artificial part of the body, such as a limb, a heart, or a breast implant
119. res_____le action *adj.* answerable or accountable for something within one's power, control, or management
120. ch__e under pressure *v.* to rub or graze against something, causing irritation, soreness, or annoyance; to become irritated or annoyed due to frustration or impatience

ANSWERS: 111. vague, 112. necessarily, 113. nervous, 114. virtual, 115. dorsal, 116. treatment, 117. dorsal, 118. prosthetic, 119. responsible, 120. chafe

121. have pro_____ic arms *adj.* of or relating to an artificial part of the body, such as a limb, a heart, or a breast implant
122. di_____ar after a week *v.* to cease to exist or be visible
123. in_____ve judgment *adj.* obtained through feelings rather than facts or proof
124. in_____ve eating *adj.* obtained through feelings rather than facts or proof
125. hand amp_____on *n.* the act of cutting off a part of the body surgically
126. l__b amputation *n.* an arm and leg of a person or animal
127. in_____t tumor growth *v.* to prevent something, such as an action, process, etc., from happening or make it less likely to happen than normal
128. mysterious app_____on *n.* the appearance of a ghost or ghost-like image; a sudden and unexpected appearance of something or someone
129. industry-sp_____ic regulations *adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
130. not nec_____ly a problem *adv.* in an essential manner; in such a way as could not be otherwise
131. ast_____ng achievement *adj.* surprising or shocking; difficult to believe
132. tr_____it the disease *v.* to send or forward an electronic signal; to pass something from one person or thing to another

ANSWERS: 121. prosthetic, 122. disappear, 123. intuitive, 124. intuitive, 125. amputation, 126. limb, 127. inhibit, 128. apparition, 129. specific, 130. necessarily, 131. astonishing, 132. transmit

142. development of the ne_____s system *adj.* worried and anxious about something; relating to the nerves
143. re_____nt by a diagram *v.* to speak, act, or be present on behalf of another person or group; to form or constitute
144. pe_____ve a threat *v.* to become aware or conscious of something through the senses
145. in_____n pimple *adj.* referring to a hair or nail that has grown into the skin surrounding it, causing irritation or infection
146. am_____e runner *n.* a person who has had an arm or a leg cut off
147. time ex_____on *n.* a thing that is added to something to make it longer, larger, or wider; an educational opportunity provided by colleges and universities to people who are not enrolled as regular students; an additional telephone set that is connected to the same telephone line
148. 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
149. the ac_____cy of his compass *n.* the state or degree of being exact or correct; the ability to perform something with proficiency and without mistake

ANSWERS: 142. nervous, 143. represent, 144. perceive, 145. ingrown, 146. amputee, 147. extension, 148. process, 149. accuracy

150. v__t majority

adj. enormous in size, number, amount, or quantity

ANSWERS: 150. vast

Session 3: Fill in the Blanks

1. The police frantically searched for clues to the _____ killer.
n. a ghost or a spirit of a dead person; something existing only in your imagination or perception
2. 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
3. To assure _____ I recommend investing in high-quality test kits.
n. the state or degree of being exact or correct; the ability to perform something with proficiency and without mistake
4. The gymnast was able to _____ his muscles to perform the difficult routine.
v. to show off one's strength, power, or possessions; to bend or be capable of bending easily
5. Parents often _____ their characteristics to their children.
v. to send or forward an electronic signal; to pass something from one person or thing to another
6. Your spinal _____ is located deep within your body.
n. a strong, thick, or thin thread or rope; a piece of plastic-coated wire used to transport electricity to a piece of equipment
7. All peaceful cooperation is based _____ on mutual trust.
adv. mainly

ANSWERS: 1. phantom, 2. injury, 3. accuracy, 4. flex, 5. transmit, 6. cord, 7. primarily

8. The _____ rumor turned out to be false.
adj. not clearly expressed or understood
9. The cerebral _____ consists of six layers.
n. the outermost layer of an organ, especially the brain
10. 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
11. I had an _____ feeling that I might be pregnant.
adj. obtained through feelings rather than facts or proof
12. You should wrap the bandage carefully and firmly around the injured _____.
n. an arm and leg of a person or animal
13. The new CEO is the _____ of the former CEO.
n. a person who held a position or office before the current holder
14. New _____ joints are less prone to metal poisoning.
adj. of or relating to an artificial part of the body, such as a limb, a heart, or a breast implant
15. He is more concerned about the _____ of his body fat than usual because of an upcoming bodybuilding competition.
n. a part, share, or amount of something considered in comparative relation to a whole
16. The _____ theory suggests that the human brain contains a small, "human-like" figure that controls our voluntary movements and sensations.
n. a representation or model of a tiny human being, often used to illustrate or represent the senses or motor functions of the human body

ANSWERS: 8. vague, 9. cortex, 10. manipulate, 11. intuitive, 12. limb, 13. predecessor, 14. prosthetic, 15. proportion, 16. homunculus

17. She is the _____ president of the company.

adj. being actually such in almost every respect; existing in essence or effect though not in actual fact

18. He enjoyed hearing the tootles of their _____ with beer.

n. a hard, pointed, often curved part that grows on the top of the heads of some animals, such as sheep and cows; a noisemaker or musical instrument that makes a loud noise when you blow through it

19. Our body transfers information along each _____ using an electrical impulse.

n. a cell that is specialized to carry information within the brain and between the brain and other parts of the body

20. They are building an _____ to the house to add more bedrooms.

n. a thing that is added to something to make it longer, larger, or wider; an educational opportunity provided by colleges and universities to people who are not enrolled as regular students; an additional telephone set that is connected to the same telephone line

21. I accidentally stubbed my toe and broke my _____.

n. the hard, flat covering on the end of a toe, made of layers of dead skin cells; often requires regular grooming and trimming to maintain proper hygiene and appearance

22. The scientist conducted a study that provided _____ details about the species' behavior.

adj. clearly defined or particular to a certain thing or situation; distinct, explicit, and precise

23. The wound continued to _____ with pain, despite the medication.

v. to beat with a strong, regular rhythm, as a pulse or a heart

ANSWERS: 17. virtual, 18. horns, 19. neuron, 20. extension, 21. toenail, 22. specific, 23. throb

24. 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

25. The _____ in your skin detects touch, pressure, and temperature changes.

- n.* a type of sensory receptor in the skin, muscles, tendons, and joints that respond to touch, pressure, temperature, or pain stimuli and sends signals to the brain for processing in the somatosensory cortex

26. Australia is widely _____ as having low levels of corruption.

- v.* to become aware or conscious of something through the senses

27. This artwork is _____ of her work.

- adj.* having the usual characteristics or traits of a specific group of things

28. A _____ audience viewed the broadcast.

- adj.* enormous in size, number, amount, or quantity

29. The surgeon carefully confirmed how to remove the tumor to avoid damaging the _____ nerves.

- adj.* of or relating to the spine (= the long bone in the body's back)

30. Rebels have pledged to _____ the armed struggle against the dictatorship.

- v.* to increase or make something increase in extent or strength

31. Jockey's superior _____ brought him victory.

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

ANSWERS: 24. develop, 25. somatosensor, 26. perceived, 27. typical, 28. vast, 29. spinal, 30. intensify, 31. technique

32. 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
33. This shirt will _____ in the wash.
- v.* to become smaller, or to make something smaller in size or amount
34. The MRI showed activity in the _____ region of the patient's brain.
- adj.* relating to or located in the outer layer of an organ or body structure, particularly the cortex of the brain
35. The company's cybersecurity team _____ the CEO to potential threats.
- v.* to warn or arouse to a sense of danger; (adjective) paying close attention or being in a state of readiness for action
36. She's a _____ pet owner who ensures her dog gets enough exercise and a healthy diet.
- adj.* answerable or accountable for something within one's power, control, or management
37. Due to budget constraints, the company had to _____ its marketing campaign for the new product.
- v.* to reduce or restrict something; to shorten or truncate; to cut short or bring to an abrupt end
38. The archaeologist ran his _____ along the pattern of the tombstones.
- n.* the end or tip of a finger

ANSWERS: 32. process, 33. shrink, 34. cortical, 35. alerted, 36. responsible, 37. curtail, 38. fingertips

39. He _____ himself to studying the history of ancient civilizations.
v. to commit or dedicate oneself or one's time, effort, or energy to a particular task or purpose
40. A person who has been declared incompetent should have legal _____.
n. the act of speaking, acting, or being present on behalf of someone officially; a statement of facts and reasons made in appealing or protesting
41. The news of her sudden death was _____ to everyone who knew her.
adj. surprising or shocking; difficult to believe
42. _____ often experience an illusion of a phantom limb.
n. a person who has had an arm or a leg cut off
43. This regulation is not _____ to minors.
adj. fit or suitable to be applied; having relevance to a person or thing
44. The new shoes are starting to _____ my feet after walking for hours.
v. to rub or graze against something, causing irritation, soreness, or annoyance; to become irritated or annoyed due to frustration or impatience
45. The majority of consumers _____ this brand with quality.
v. to mentally connect someone or something with someone or something else
46. The artist created a _____ sculpture of a famous politician for the town square.
adj. resembling or appearing similar to something alive or real, often realistically or vividly; convincing or authentic in appearance or behavior

ANSWERS: 39. devoted, 40. representation, 41. astonishing, 42. Amputees, 43. applicable, 44. chafe, 45. associate, 46. lifelike

47. She has been in great _____ since she was heartbroken.
n. a feeling of great worry, sadness, pain, or discomfort
48. We gained various _____ by analyzing the vast amount of data owned by the company.
n. the ability to gain an accurate and deep understanding of people or situations; an accurate and deep understanding of what something is like
49. _____ of the limb is a last resort for the patient.
n. the act of cutting off a part of the body surgically
50. She still _____ writes a short romance novel.
adv. now and then; sometimes but not often
51. 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
52. Excessive parental interference may _____ children's eagerness to learn.
v. to prevent something, such as an action, process, etc., from happening or make it less likely to happen than normal
53. Walking through the graveyard at night, I saw an eerie _____ of a ghostly figure.
n. the appearance of a ghost or ghost-like image; a sudden and unexpected appearance of something or someone
54. The pharmacist not only prescribes the _____ but also guides its proper use.
n. a drug or other form of medicine that treats, prevents, or alleviates the symptoms of the disease

ANSWERS: 47. distress, 48. insights, 49. Amputation, 50. occasionally, 51. brain, 52. inhibit, 53. apparition, 54. medication

55. The primary purpose of the _____ is pain relief.

- n.* the way in which someone deals with or behaves towards someone or something; medical care provided to a patient for an injury or illness.

56. We elected him to _____ us at the international conference.

- v.* to speak, act, or be present on behalf of another person or group; to form or constitute

57. 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

58. The _____ of the fruit is sweet and juicy.

- n.* the soft substance composing the body of a person or animal, as opposed to bones and other structures

59. When the first molecule in the _____ receives a signal, it activates other molecules.

- n.* a track that constitutes or serves as a path; an approach or a way of doing something

60. The cello is a member of the _____ family.

- n.* a four-stringed wooden musical instrument held against the neck and played by passing a bow across the strings

61. He has absolutely no _____ comprehension of maths.

- adj.* related to or founded on ideas, principles

62. They watched the train _____ into the distance.

- v.* to cease to exist or be visible

ANSWERS: 55. treatment, 56. represent, 57. patient's, 58. flesh, 59. pathway, 60. violin, 61. conceptual, 62. disappear

63. He _____ a branch from a tree quickly.

v. to break or separate something by cutting, especially suddenly and forcibly

64. The _____ to the safe was a secret.

n. a collection of things that have been combined; an assemblage of separate parts or qualities

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

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

66. Despite the scandals, his reputation remained _____.

adj. undamaged and complete

67. This accident was something that happened _____.

adv. in an essential manner; in such a way as could not be otherwise

68. The salespeople speak in technical terms to _____ that they are more knowledgeable than the customer.

v. to indicate the truth or existence of something without referring to it

69. The shark's _____ fin is a distinguishing feature.

adj. located on the back, particularly the upper surface of an animal's body; related to or pertaining to the back

70. There was a disturbance of _____ function.

adj. of or relating to a nerve or the nervous system that includes the brain

71. The teacher is very _____ to children's feelings.

adj. able to notice slight changes, signals, or influences; able to feel or perceive other's feelings; susceptible to the things people say or do

ANSWERS: 63. severed, 64. combination, 65. norms, 66. intact, 67. necessarily, 68. imply, 69. dorsal, 70. neural, 71. sensitive

72. I underwent aversion _____ for my addiction to alcohol.

n. the act of caring for someone through medication, remedial training, etc.

73. An _____ toenail can be very painful and requires medical attention.

adj. referring to a hair or nail that has grown into the skin surrounding it, causing irritation or infection

74. He suffers from _____ breakdowns.

adj. worried and anxious about something; relating to the nerves

75. She explained the _____ surrounding the accident.

n. the specific conditions or events that surround a particular situation or occurrence

ANSWERS: 72. therapy, 73. ingrown, 74. nervous, 75. circumstances