Englist.me

Vocabulary Builder Reference from...

Greg Gage: Electrical experiments with plants that count and communicate | TED Talk https://www.ted.com/talks/greg_gage_electrical_experiments_with_plants_that_count_and_communicate



All Words

IMPORTANT

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

Session 1: Word List

neuroscience

- n. the scientific study of the function, structure, and disorder of the brain and the nervous system
- (1) the branch of **neuroscience**, (2) a theoretical concept in **neuroscience**

Our university is famous for its professors, who are well-versed in behavioral **neuroscience**.

cofounder

- one of several people who establishes an organization or starts a business
- (1) cofounder of the university, (2) late cofounderHe is the cofounder and chairman of this tech company.

backyard

- n. a whole space behind and belonging to a house synonym: courtyard, garden
- play in the backyard,
 backyard barbecue
 grows vegetables in his backyard.

graduate

 a person who has a first degree from university or college; (verb) to complete the first course of university or college and get a degree

synonym: alumna, alum, grad

(1) graduate degree program, (2) honor graduateMany employers hire graduate trainees to train as managers.

equip

v. to provide a person or a place with the things that are needed for a particular purpose or activity

synonym: prepare, furnish, provide

(1) **equip** an army, (2) **equip** our children with some special skills

The construction company **equipped** the building with an earthquake-resistant device.

brain

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

synonym: intellect, mind, encephalon

basic brain function, (2) permanent brain damage
 rays revealed a small tumor in his brain.

complexity

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

synonym: intricacy, sophistication, elaboration

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

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

instantly

adv. immediately

synonym: immediately, right away, directly

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

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

insect

- any small creature that has six legs and a body divided into three sections
- (1) insect antenna, (2) insect biology

These **insects** are more prevalent above a certain latitude.

shrub

n. a woody plant that is smaller than a tree and has several main stems emerging from the soil

synonym: bush, hedge, fern

(1) tree and **shrubs**, (2) small **shrub**

These are **shrubs** with no trunks that rarely grow taller than 3

meters.

function

n. the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose

synonym: purpose, mapping, job

(1) function properly, (2) immune function

The brain is an incredibly complex organ that controls the body's **function**.

absolutely

adv. without restriction or limitation; completely or utterlysynonym: completely, utterly, definitely

(1) **absolutely** against, (2) **absolutely** obsessed with the girl

I am **absolutely** opposed to his idea because of morality.

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.

evolve

v. to develop gradually, or to cause the development of something or someone gradually

synonym: develop, mature, grow

(1) **evolve**, (2) **evolve** over the past decade

Eyeless fish evolved in dark caves.

electrical

adj. relating to electricity

(1) an **electrical** storm, (2) degree in **electrical** engineering Actuators convert **electrical** pulses into motion.

stimulus

n. something that causes growth or arouses actionsynonym: incitement, inspiration, motivation

(1) a response to a **stimulus**, (2) economic **stimulus**This book provides children with ideas and a **stimulus** for outside recreation.

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.

chemical

adj. relating to or connected with chemistry;

synonym: chemic, synthetic

toxic chemicals, (2) a chemical compound
 The firm has grown into a large chemical manufacturing.

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.

moving

adj. causing strong emotions or feelings, especially sadness or sympathy

synonym: emotional, poignant, touching

(1) **moving** experience, (2) **moving** ceremony His **moving** speech about his struggles with addiction brought tears to the audience's eyes.

Arthurian

adj. relating to king Arthur and the tales and legends associated with him

(1) the **Arthurian** cycle, (2) **Arthurian** romances
The **Arthurian** legends of King Arthur and the knights of the Round Table are popular literary motifs.

royal

adj. relating to or belonging to the king or queen or a member of their family

synonym: imperial, noble, aristocratic

(1) a royal palace, (2) prince royal

She is willing to give up her position in the **royal** family to marry him.

governor

 the person who holds the highest executive office in a state or province

synonym: administrator, executive, leader

(1) **governor** general, (2) a prefectural **governor**

The state **governor** visited the affected areas and promised to aid the victims.

fascinating

adj. extremely interesting

synonym: alluring, intriguing, captivating

(1) **fascinating** story, (2) completely **fascinating** to me The museum houses a **fascinating** collection of Celtic artifacts.

discovery

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

synonym: finding, uncovering, detection

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

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

swamp

 an area of low-lying land that is flooded or saturated with water, often having a growth of natural vegetation

synonym: marsh, mire, bog

(1) muddy **swamp**, (2) **swamp** tour

The lowland **swamp** was full of dangerous animals and poisonous plants.

bug

 any tiny insect; a fault or defect in a computer program, system, or machine

synonym: insect, bacterium, microbe

(1) bug bites, (2) number of bug fixes

I found a stink **bug** crawling across the ceiling.

trap

 a piece of equipment or hole for catching animals or people; (verb) to catch animals or people and prevent them from escaping

synonym: catch, snare, pinfall

(1) set a trap, (2) trap an animal

The enemy fell right into the **trap**.

eventually

adv. finally, particularly after a long time or a lot of struggle, complications, and so on

synonym: finally, someday, ultimately

(1) **eventually** become obsolete, (2) **eventually** succeed The corporation **eventually** dominated the entire tobacco business.

evolutionary

adj. relating to or denoting how living things develop or change from earlier forms

synonym: developmental, mutative, transformative

(1) ecology and **evolutionary** biology, (2) the **evolutionary** process

Evolutionary algorithms can find ways to optimize that humans do not anticipate.

carnivorous

adj. feeding on the flesh of other animalssynonym: meat-eating, predatory, flesh-eating

(1) **carnivorous** cell, (2) aquatic **carnivorous** mammal The **carnivorous** dinosaur preyed on other animals.

vocabulary

 the words used by a language, group, or individual; the knowledge and understanding of words and their meanings that a person possesses

synonym: lexicon, glossary, dictionary

(1) **vocabulary** list, (2) academic **vocabulary** Using proper **vocabulary** is essential for writing a good essay.

experiment

 the scientific test conducted to observe what happens and gain new knowledge

synonym: experimentation, investigation

(1) **experiment** design, (2) series of **experiments** His **experiments** showed highly positive results.

physiology

- the branch of the biological sciences dealing with the functioning of organisms
- (1) human **physiology**, (2) **physiology** research **Physiology** is the science of how living things work.

neuron

 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.

electrode

- either of two points or ends of a conductor at which electricity enters or leaves an object, substance, or region
- (1) platinum **electrodes**, (2) **electrode** corrosion It is important to place the **electrodes** in the correct position for accurate electro-cardiogram recording.

wrist

 the joint between the hand and the forearm; the narrow part of the hand near this joint

synonym: carpus

(1) wrist bones, (2) glance at my wrist watch

He sprained his **wrist** while playing basketball.

hook

 a curved device used for suspending, holding, or pulling something, especially one attached to a surface for hanging things on; a sharp curve or crook

synonym: buckle, pin, curve

(1) a hat **hook**, (2) the curved shape of a **hook** Please hang your towel on a **hook**.

electrocardiogram

 a test that uses electrodes placed on the chest, arms, and legs to record the electrical signals of the heart and create a graph that shows the heart's rhythm and activity

synonym: ECG, heart monitor, cardiac monitor

(1) **electrocardiogram** technician, (2) abnormal **electrocardiogram**

The hospital invested in state-of-the-art **electrocardiogram** machines to improve patient care.

voltage

- the difference in the force of an electric current between two points
- the voltage spiked, (2) low voltage
 Connecting batteries in series increase the voltage of the circuit.

encode

v. to convert information into a code or format suitable for storage or transmission

synonym: transcribe, convert

(1) encode data, (2) encode information

The software can **encode** and decode encrypted messages.

introductory

adj. intended as an introduction or preliminary; serving as a base or starting point

synonym: beginning, preliminary, initial

(1) **introductory** biology text, (2) product **introductory** sale The **introductory** class was designed to give students a basic understanding of the subject.

mimosa

 a cocktail typically made with champagne and orange juice; a plant with delicate, fern-like leaves and fluffy pink or yellow flowers

synonym: cocktail, drink

(1) mimosa tree, (2) mimosa cocktail

The wedding reception was decorated with delicate white roses and yellow **mimosa** arrangements.

curl

tap

v. to form or make something form into a curved or spiral shape; (noun) a round shape formed by a series of concentric circles

synonym: coil, curve, spiral

- curl around street corners, (2) a curl of smoke
 The cat curled into a ball and went to sleep.
- v. to hit someone or something quickly, gently, and often repeatedly; to use existing resources, such as energy, knowledge, etc.

synonym: knock, exploit, use

(1) **tap** a new market, (2) **tap** keyboard with an index finger To expand the company, we must **tap** new human resources.

branch

 a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization

synonym: limb, twig, bough

(1) branch office, (2) a branch pipe

The **branch** of the tree had fallen and blocked the road.

scare

- v. to frighten a person or animal, or to become frightened synonym: frighten, spook, intimidate
- (1) **scare** off her attacker by screaming, (2) **scare** the birds away

We hit the ground to **scare** out the rabbits.

appealing

adj. attractive or exciting; evoking a positive response or desire; having qualities that are likely to encourage

someone to like or enjoy something synonym: attractive, alluring, captivating

(1) appealing design, (2) an appealing offer

The well-crafted plot and interesting characters made the book very **appealing** to readers

herbivore

- an animal that eats only plants, such as a cow or a deer synonym: plant-eater, browser, graminivore
- (1) **herbivore** diet, (2) **herbivore** animals

A giraffe is an **herbivore** that primarily eats leaves and twigs.

wrap

to cover or enclose something entirely with paper, cloth, or other material

synonym: surround, cover, bandage

- (1) wrap a fish in foil, (2) wrap up a meeting **Wrap** the bandage tightly around the injured arm.
- the central part of something from which other parts can develop or grow; the part of a word common to all its inflected variants; (verb) to grow out of, have roots in, or originate in

synonym: branch, limb, (verb) come from

(1) **stem** from a belief, (2) the **stem** of a matchstick A rose has thorns on its **stem**.

- 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.

receptor

- an organ having nerve endings that respond to n. stimulation such as heat or cold and makes the body react in a particular way
- (1) cellular **receptor**, (2) **receptor** for HIV in humans Hay fever occurs when a substance called histamine binds to

stem

engineer

receptors in the nose and eyes.

release

- v. to set free or allow to escape from confinement synonym: free, let go, discharge
- (1) **release** a prisoner, (2) **release** CO2 into the air The animal rights group worked to **release** the dolphins back into the wild.

Venus

- n. the planet second in order from the sun
- (1) **Venus** orbiter, (2) surface of **Venus**They launched a rocket toward **Venus**.

pretension

 n. the act of claiming or asserting something, especially without good reason or without evidence; an unfounded or excessive claim or ambition

synonym: presumption, pretense, affectation

(1) **pretension** to authority, (2) baseless **pretension**His **pretensions** of being a gourmet were quickly exposed when he could not identify basic herbs and spices.

trigger

- v. to make something happen suddenly; to cause something such as a device, machine, etc. to functionsynonym: activate, spark, drive
- (1) **trigger** a biochemical response, (2) **trigger** inflation The incident **triggered** a political controversy.

replace

- v. to take the place of somethingsynonym: substitute, supersede, displace
- (1) **replace** one word with another, (2) **replace** a phone Eventually, the new design will **replace** all older models.

nutrient

 any substance that is essential for the maintenance and growth of living things

synonym: food, vitamin

(1) nutrient medicine, (2) a nutrient for hairThey used fast-acting nutrients on the flowers in the flower

beds.

darn

v. to mend a piece of clothing by sewing over a hole or tear with small, tight stitches

synonym: mend, repair, patch

(1) darn stockings, (2) darn hole

I have to **darn** these socks before they become unwearable.

snap

v. to record on photographic film; to make a sudden, sharp sound; (noun) the act of catching an object with the hands

synonym: break, crack, fracture

(1) **snap** a whip, (2) **snap** judgment

She **snapped** a quick picture of the beautiful sunset before it disappeared.

probabilistic

adj. characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks

synonym: probable, statistical, likely

(1) **probabilistic** model, (2) **probabilistic** approach In a **probabilistic** system, the outcome is uncertain and can vary based on chance.

immediately

adv. now or without delay

synonym: directly, instantly, promptly

(1) **immediately** recall a product, (2) write him an answer **immediately**

A suspension order from the court is effective **immediately**.

computation

- the act or process of calculating something, especially an answer or amount, by using a machine or calculator
 synonym: calculation, estimation, arithmetic
- (1) parallel **computation**, (2) theory of **computation**The researcher demonstrated the superiority of quantum **computation** in several mathematical tasks.

determinant

 a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result

synonym: cause, factor, element

(1) environmental **determinant**, (2) a **determinant** of crop yields

One **determinant** of success is having a positive attitude and a strong work ethic.

axon

- a long and slender projection of a nerve cell, or neuron, that sends out signals away from the nerve cell
- (1) an **axon** of a nerve cell, (2) the **axon** terminals We are developing a technology to promote the elongation and regeneration of sensory nerve **axons**.

depressed

adj. sad and without any hopesynonym: despondent, despairing, sad

(1) **depressed** feeling, (2) the market is **depressed** After his mother died, he got **depressed**.

actualize

- v. to make real or concrete; to bring into existence or implementation; to fulfill or realize a potential or intention synonym: realize, accomplish, effectuate
- (1) **actualize** your ideas, (2) **actualize** the company's vision I need to **actualize** my plan to make it a reality.

communicate

 to share or exchange information with others by speaking, writing, moving your body, or using other signals

synonym: convey, share, transmit

- (1) **communicate** his anxieties to the psychiatrist,
- (2) communicate well with my advisor

Dolphins use sound to communicate with each other.

electrify

v. to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something

synonym: wire, amaze, astonish

(1) **electrify** the audience, (2) **electrify** a manufacturing process

The product developed through years of research continues to **electrify** the market.

slightly

adv. in a small degree or extent; a littlesynonym: barely, narrowly, scarcely

(1) increase **slightly**, (2) **slightly** alkaline soils He moved his body **slightly** to the left.

ion

- an atom or molecule that has a positive or negative electrical charge caused by its losing or gained one or more electrons
- (1) **ion** channel, (2) rechargeable lithium- **ion** battery

 The increased concentrat **ion** of hydrogen ions in an aqueous solution makes it more acidic.

ubiquitous

adj. being or existing everywhere at once synonym: universal, omnipresent, everywhere

(1) **ubiquitous** computing, (2) **ubiquitous** across ecosystems

Sugar is **ubiquitous** in food.

euro

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

interspecies

adj. occurring between or involving different species;pertaining to interactions between different speciessynonym: interbreeding, crossbreeding, mixed

(1) **interspecies** interaction, (2) **interspecies** communication

There are many cases of **interspecies** cooperation in the animal kingdom.

brand

 a type of product, service, etc., made by a particular company and sold under a specific name; identification mark on the skin of livestock, criminals, etc., made by burning

synonym: trademark, label, symbol

(1) create a **brand** logo, (2) the **brand** of the new car There's a new **brand** of hero in the movies now.

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.

recall

v. to remember something

synonym: remember, retrieve, recollect

(1) **recall** the incident, (2) **recall** his name She vividly **recalls** getting laid off several years ago.

revolution

 a large-scale attempt to overthrow the government of a country, often using violence or war;

synonym: coup, innovation, rebellion

(1) beginning of the industrial **revolution**, (2) a political **revolution**

The **revolution** by the citizen resulted in a redistribution of wealth.

Session 2: Spelling

existence or implementation; to firealize a potential or intention 3. glance at my wr_t watch n. the joint between the hand and the forearm; the narrow part of the hand near this joint 4. the great diry of the century n. the act or process of finding informa place, or an object, or learning something that was previously not known 5. brh office n. a division of a tree or woody shrungrows out from the trunk or a main stem; a division of some larger or complex organization 6. honor grte n. a person who has a first degree for university or college; (verb) to conthe first course of university or conductor at which electricity entire to the first course or methods the estimate likelihoods or risks 8. elde corrosion n. either of two points or ends of a conductor at which electricity entire the foreal strength and the process of the first course or inversity or conductor at which electricity entire the process of the first course of university or conductor at which electricity entire the process of the first course of university or conductor at which electricity entire the process of the first course of university or conductor at which electricity entire the process of the foreal process of the first course of university or conductor at which electricity entire the process of the foreal process of the fore	1.	development of the nes system	adj.	worried and anxious about something; relating to the nerves
forearm; the narrow part of the hanear this joint 4. the great diry of the century n. the act or process of finding infor a place, or an object, or learning something that was previously not known 5. brh office n. a division of a tree or woody shrugrows out from the trunk or a main stem; a division of some larger of complex organization n. a person who has a first degree of university or college; (verb) to conthe first course of university or college; (verb) to c	2.	acze the company's vision	v.	to make real or concrete; to bring into existence or implementation; to fulfill or realize a potential or intention
a place, or an object, or learning something that was previously no known 5. brh office n. a division of a tree or woody shru grows out from the trunk or a mainstem; a division of some larger of complex organization 6. honor grte n. a person who has a first degree for university or college; (verb) to continue the first course of university or college and get a degree 7. protic model adj. characterized by the influence of chance or probability; involving the of statistical models or methods the estimate likelihoods or risks 8. elde corrosion n. either of two points or ends of a conductor at which electricity entered a division of a tree or woody shruggrows out from the trunk or a mainstead of a division of a tree or woody shruggrows out from the trunk or a mainstead of a division of a tree or woody shruggrows out from the trunk or a mainstead of a conductor at which electricity entered to the trunk or a division of a tree or woody shruggrows out from the trunk or a mainstead of a conductor at which electricity entered to the trunk or a division of a tree or woody shruggrows out from the trunk or a mainstead of a conductor at which electricity entered to the trunk or a division of a tree or woody shruggrows out from the trunk or a mainstead or a division of a tree or woody shruggrows out from the trunk or a mainstead or a division of a tree or woody shruggrows out from the trunk or a mainstead or a division of a tree or woody shruggrows out from the trunk or a mainstead or a division of a tree or woody shruggrows out from the trunk or a mainstead or a division of a tree or woody shruggrows out from the trunk or a mainstead or a division of a tree or woody shruggrows out from the trunk or a mainstead or a division of a tree or woody shruggrows out from the trunk or a mainstead or a division of a tree or woody shruggrows or a division of a tree or woody shruggrows or a division of a tree or woody shruggrows or a division of a tree or woody shruggrows or a division of a tree or woody shruggrows or	3.	glance at my wr_t watch	n.	the joint between the hand and the forearm; the narrow part of the hand near this joint
grows out from the trunk or a main stem; a division of some larger of complex organization 6. honor grte n. a person who has a first degree for university or college; (verb) to continue the first course of university or college and get a degree 7. protic model adj. characterized by the influence of chance or probability; involving the of statistical models or methods the estimate likelihoods or risks 8. elde corrosion n. either of two points or ends of a conductor at which electricity enterests.	4.	the great diry of the century	n.	the act or process of finding information, a place, or an object, or learning about something that was previously not known
university or college; (verb) to conthe first course of university or college 7. protic model adj. characterized by the influence of chance or probability; involving the of statistical models or methods to estimate likelihoods or risks 8. elde corrosion n. either of two points or ends of a conductor at which electricity enterprises.	5.	brh office	n.	a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization
chance or probability; involving the of statistical models or methods to estimate likelihoods or risks 8. elde corrosion n. either of two points or ends of a conductor at which electricity entering the of statistical models or methods to estimate likelihoods or risks	6.	honor grte	n.	a person who has a first degree from university or college; (verb) to complete the first course of university or college and get a degree
conductor at which electricity enter	7.	protic model	adj.	chance or probability; involving the use of statistical models or methods to
	8.	elde corrosion	n.	either of two points or ends of a conductor at which electricity enters or leaves an object, substance, or region

ANSWERS: 1. nervous, 2. actualize, 3. wrist, 4. discovery, 5. branch, 6. graduate, 7. probabilistic, 8. electrode

ANSWERS: 9. revolution, 10. sensitive, 11. instantly, 12. neuroscience, 13. evolve, 14. wrist, 15. electrify, 16. communicate, 17. revolution, 18. release

- 19. eve____ly become obsolete
- 20. w__p up a meeting
- 21. E__o crises
- 22. Ar____an romances
- 23. sw__p tour
- 24. mo___g experience
- 25. the curved shape of a h_k
- 26. cellular re or
- 27. co____er of the university
- 28. mi___a tree
- 29. eq__p our children with some special skills

- adv. finally, particularly after a long time or a lot of struggle, complications, and so on
- v. to cover or enclose something entirely with paper, cloth, or other material
- n. the official currency of most European Union countries
- adj. relating to king Arthur and the tales and legends associated with him
- an area of low-lying land that is flooded or saturated with water, often having a growth of natural vegetation
- adj. causing strong emotions or feelings, especially sadness or sympathy
- a curved device used for suspending, holding, or pulling something, especially one attached to a surface for hanging things on; a sharp curve or crook
- an organ having nerve endings that respond to stimulation such as heat or cold and makes the body react in a particular way
- n. one of several people who establishes an organization or starts a business
- a cocktail typically made with champagne and orange juice; a plant with delicate, fern-like leaves and fluffy pink or yellow flowers
- v. to provide a person or a place with the things that are needed for a particular purpose or activity

ANSWERS: 19. eventually, 20. wrap, 21. euro, 22. Arthurian, 23. swamp, 24. moving, 25. hook, 26. receptor, 27. cofounder, 28. mimosa, 29. equip

ANSWERS: 30. wrap, 31. electrical, 32. absolutely, 33. insect, 34. release, 35. movement, 36. instantly, 37. determinant, 38. bug, 39. brand, 40. interspecies

41.	t_p a new market	v.	to hit someone or something quickly, gently, and often repeatedly; to use existing resources, such as energy, knowledge, etc.
42.	deed feeling	adj.	sad and without any hope
43.	sce off her attacker by screaming	<i>v</i> .	to frighten a person or animal, or to become frightened
44.	the evoary process	adj.	relating to or denoting how living things develop or change from earlier forms
45.	ree a phone	ν.	to take the place of something
46.	a theoretical concept in neunce	n.	the scientific study of the function, structure, and disorder of the brain and the nervous system
47.	here animals	n.	an animal that eats only plants, such as a cow or a deer
48.	economic stus	n.	something that causes growth or arouses action
49.	acze your ideas	v.	to make real or concrete; to bring into existence or implementation; to fulfill or realize a potential or intention
50.	increase slly	adv.	in a small degree or extent; a little
51.	ree one word with another	<i>v</i> .	to take the place of something
52.	reI his name	<i>v</i> .	to remember something
53.	absly against	adv.	without restriction or limitation; completely or utterly
54.	late coer	n.	one of several people who establishes

ANSWERS: 41. tap, 42. depressed, 43. scare, 44. evolutionary, 45. replace, 46. neuroscience, 47. herbivore, 48. stimulus, 49. actualize, 50. slightly, 51. replace, 52. recall, 53. absolutely, 54. cofounder

an organization or starts a business

ANSWERS: 55. computation, 56. carnivorous, 57. darn, 58. movement, 59. backyard, 60. encode, 61. euro, 62. graduate, 63. pretension

evolutionary, 70. neuron, 71. fascinating, 72. curl, 73. discovery, 74. moving

- catch animals or people and prevent them from escaping
 - the difference in the force of an electric n. current between two points
 - the words used by a language, group, or individual; the knowledge and understanding of words and their meanings that a person possesses
 - any small creature that has six legs and n. a body divided into three sections

ANSWERS: 75. nutrient, 76. governor, 77. brand, 78. appealing, 79. complexity, 80. physiology, 81. trap, 82. voltage, 83. vocabulary, 84. insect

82. low vo____e

83. voc____ry list

84. in t biology

ANSWERS: 85. stem, 86. trap, 87. tap, 88. introductory, 89. engineer, 90. axon, 91. stimulus, 92. physiology, 93. carnivorous, 94. experiment

95. the voe spiked	n.	the difference in the force of an electric current between two points
96. environmental detnt	n.	a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
97. rechargeable lithium-i_n battery	n.	an atom or molecule that has a positive or negative electrical charge caused by its losing or gained one or more electrons
98. i_n channel	n.	an atom or molecule that has a positive or negative electrical charge caused by its losing or gained one or more electrons
99. write him an answer immly	adv.	now or without delay
100. preon to authority	n.	the act of claiming or asserting something, especially without good reason or without evidence; an unfounded or excessive claim or ambition
101. the Aran cycle	adj.	relating to king Arthur and the tales and legends associated with him
102. a brh pipe	n.	a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization
103. fuon properly	n.	the purpose or use of an object, system or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
ANSWERS: 95. voltage, 96. determinant, 9	97. id	on, 98. ion, 99. immediately, 100.

pretension, 101. Arthurian, 102. branch, 103. function

104. reI the incident	<i>v</i> .	to remember something
105. prince roI	adj.	relating to or belonging to the king or queen or a member of their family
106. ubius computing	adj.	being or existing everywhere at once
107. small shb	n.	a woody plant that is smaller than a tree and has several main stems emerging from the soil
108. eleram technician	n.	a test that uses electrodes placed on the chest, arms, and legs to record the electrical signals of the heart and create a graph that shows the heart's rhythm and activity
109. product intory sale	adj.	intended as an introduction or preliminary; serving as a base or starting point
110. permanent brn damage	n.	the organ inside the head that is responsible for one's movement, thought, memory, and feeling
111. prs 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
112. dn stockings	<i>v</i> .	to mend a piece of clothing by sewing over a hole or tear with small, tight stitches

ANSWERS: 104. recall, 105. royal, 106. ubiquitous, 107. shrub, 108. electrocardiogram, 109. introductory, 110. brain, 111. process, 112. darn

a woody plant that is smaller than a tree 113. tree and sh bs n. and has several main stems emerging from the soil 114. cognitive com____ty the state or quality of being complicated n. or intricate and difficult to understand 115. ubi us across ecosystems adj. being or existing everywhere at once 116. surface of Ve s the planet second in order from the sun n. 117. s p a whip to record on photographic film; to make ν. a sudden, sharp sound; (noun) the act of catching an object with the hands to frighten a person or animal, or to 118. sc__e the birds away become frightened 119. fas____ng story adj. extremely interesting 120. ap ng design adj. attractive or exciting; evoking a positive response or desire; having qualities that are likely to encourage someone to like or enjoy something 121. tr r a biochemical response to make something happen suddenly; to cause something such as a device, machine, etc. to function the act or process of calculating 122. parallel com____on something, especially an answer or amount, by using a machine or calculator 123. a hat h k a curved device used for suspending, holding, or pulling something, especially one attached to a surface for hanging things on; a sharp curve or crook

ANSWERS: 113. shrub, 114. complexity, 115. ubiquitous, 116. Venus, 117. snap, 118. scare, 119. fascinating, 120. appealing, 121. trigger, 122. computation, 123. hook

a cocktail typically made with

champagne and orange juice; a plant with delicate, fern-like leaves and fluffy pink or yellow flowers

ANSWERS: 124. evolve, 125. probabilistic, 126. engineer, 127. backyard, 128. depressed, 129. curl, 130. electrocardiogram, 131. trigger, 132. mimosa

132. mi___a cocktail

Vocab-Builder Ref from "Greg Gage: Electrical experiments	with pi	ants that count and communicate TED Talk" (79 words
133. elfy the audience	ν.	to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
134. nunt medicine	n.	any substance that is essential for the maintenance and growth of living things
135. slly alkaline soils	adv.	in a small degree or extent; a little
136. the sm of a matchstick	n.	the central part of something from which other parts can develop or grow; the part of a word common to all its inflected variants; (verb) to grow out of, have roots in, or originate in
137. comte well with my advisor	<i>v</i> .	to share or exchange information with others by speaking, writing, moving your body, or using other signals
138. ene data	<i>v</i> .	to convert information into a code or format suitable for storage or transmission
139. here diet	n.	an animal that eats only plants, such as a cow or a deer
140. sp judgment	<i>v</i> .	to record on photographic film; to make a sudden, sharp sound; (noun) the act of catching an object with the hands
141. basic brn function	n.	the organ inside the head that is responsible for one's movement, thought, memory, and feeling
142. immly recall a product	adv.	now or without delay
143. a chal compound	adj.	relating to or connected with chemistry;

ANSWERS: 133. electrify, 134. nutrient, 135. slightly, 136. stem, 137. communicate, 138. encode, 139. herbivore, 140. snap, 141. brain, 142. immediately, 143. chemical

ANSWERS: 144. royal, 145. bug, 146. interspecies, 147. governor, 148. process, 149. sensitive, 150. neuron, 151. equip, 152. electrode

n.

152. platinum el____des

purpose or activity

either of two points or ends of a

conductor at which electricity enters or leaves an object, substance, or region

153. Ves orbiter
154. muddy swp
155. get nes
156. immune fuon
157. expnt design

158. academic voc____ry

- n. the planet second in order from the sun
- an area of low-lying land that is flooded or saturated with water, often having a growth of natural vegetation
- adj. worried and anxious about something; relating to the nerves
- n. the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
- n. the scientific test conducted to observe what happens and gain new knowledge
- n. the words used by a language, group, or individual; the knowledge and understanding of words and their meanings that a person possesses

ANSWERS: 153. Venus, 154. swamp, 155. nervous, 156. function, 157. experiment, 158. vocabulary

Session 3: Fill in the Blanks

1.	Many employers hire trainees to train as managers.
n.	a person who has a first degree from university or college; (verb) to complete the first course of university or college and get a degree
2.	is the science of how living things work.
n.	
3.	He grows vegetables in his
n.	a whole space behind and belonging to a house
4.	I am opposed to his idea because of morality.
ad	v. without restriction or limitation; completely or utterly
5.	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
6.	We hit the ground to out the rabbits.
ν.	to frighten a person or animal, or to become frightened
7.	They used fast-acting on the flowers in the flower beds.
n.	any substance that is essential for the maintenance and growth of living things
8.	They launched a rocket toward
n.	the planet second in order from the sun
	SWERS: 1. graduate, 2. Physiology, 3. backyard, 4. absolutely, 5. process, 6. are, 7. nutrients, 8. Venus

fascinating, 16. brain

25.	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				
26.	She vividly getting laid off several years ago.				
ν.	to remember something				
27.	Her research team made an important				
n.	the act or process of finding information, a place, or an object, or learning about something that was previously not known				
28.	These are more prevalent above a certain latitude.				
n.	any small creature that has six legs and a body divided into three sections				
29.	Dolphins use sound to with each other.				
v.	to share or exchange information with others by speaking, writing, moving your body, or using other signals				
30.	Hay fever occurs when a substance called histamine binds to in the nose and eyes.				
n.	an organ having nerve endings that respond to stimulation such as heat or cold and makes the body react in a particular way				
31.	Connecting batteries in series increase the of the circuit.				
n.	the difference in the force of an electric current between two points				
32.	The lowland was full of dangerous animals and poisonous plants.				
n.	an area of low-lying land that is flooded or saturated with water, often having a growth of natural vegetation				
	SWERS: 25. movement, 26. recalls, 27. discovery, 28. insects, 29. communicate, receptors, 31. voltage, 32. swamp				

49. He moved his body to the left.
adv. in a small degree or extent; a little
50. Some countries may leave the
n. the official currency of most European Union countries
51. The state visited the affected areas and promised to aid the victims.
n. the person who holds the highest executive office in a state or province
52. His of being a gourmet were quickly exposed when he could not identify basic herbs and spices.
 the act of claiming or asserting something, especially without good reason or without evidence; an unfounded or excessive claim or ambition
53. The increased concentrat of hydrogen ions in an aqueous solution makes it more acidic.
 an atom or molecule that has a positive or negative electrical charge caused by its losing or gained one or more electrons
54. His speech about his struggles with addiction brought tears to the audience's eyes.
adj. causing strong emotions or feelings, especially sadness or sympathy
55. These are with no trunks that rarely grow taller than 3 meters.
n. a woody plant that is smaller than a tree and has several main stems emerging from the soil
56. His showed highly positive results.
n. the scientific test conducted to observe what happens and gain new knowledge
ANSWERS: 49. slightly, 50. Euro, 51. governor, 52. pretensions, 53. ion, 54. moving, 55. shrubs, 56. experiments

 57. One of success is having a positive attitude and a strong work ethic. n. a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result.
or determining of a particular outcome or result 58. 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 59. The dinosaur preyed on other animals. adj. feeding on the flesh of other animals
60. Actuators convert pulses into motion. adj. relating to electricity
61. The software can and decode encrypted messages.ν. to convert information into a code or format suitable for storage or transmission
62. Sugar is in food. adj. being or existing everywhere at once
63. He suffers from breakdowns. adj. worried and anxious about something; relating to the nerves
64. The product developed through years of research continues to the market.
v. to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
ANSWERS: 57. determinant, 58. sensitive, 59. carnivorous, 60. electrical, 61. encode 62. ubiquitous, 63. nervous, 64. electrify

65. <i>F</i>	fter his mother died, he got
adj.	sad and without any hope
66. <i>A</i>	rose has thorns on its
n.	the central part of something from which other parts can develop or grow; the part of a word common to all its inflected variants; (verb) to grow out of, have roots in, or originate in
67. 1	he corporation dominated the entire tobacco business.
adv.	finally, particularly after a long time or a lot of struggle, complications, and so on
68. E	ventually, the new design will all older models.
ν.	to take the place of something
69. I	need to my plan to make it a reality.
<i>v</i> .	to make real or concrete; to bring into existence or implementation; to fulfill or realize a potential or intention
	a system, the outcome is uncertain and can vary based on nance.
C	·
adj.	nance. characterized by the influence of chance or probability; involving the use of
adj.	nance. characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks
71. 7	characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks his book provides children with ideas and a for outside recreation.
71. 7	characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks his book provides children with ideas and a for outside recreation. something that causes growth or arouses action
71. 7 n. 72. S v.	characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks his book provides children with ideas and a for outside recreation. something that causes growth or arouses action he a quick picture of the beautiful sunset before it disappeared. to record on photographic film; to make a sudden, sharp sound; (noun) the act

/ocab-Builder Ref from	"Greg Gage: Electrical expe	eriments with plants tha	t count and communic	ate TED Talk" (79 words
ANSWERS:				