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Vocabulary Builder Reference from...

Greg Gage: The cockroach beatbox | TED Talk

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All Words

IMPORTANT

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Session 1: Word List

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**.

instantly

adv. immediately

synonym : immediately, right away, directly

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

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

pump

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

synonym : drain, inject, send

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

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

lung

n. either of the two organs in the chest that people and some animals use for breathing

(1) **lung** capacity, (2) do **lung** transplantation

He has terminal **lung** cancer.

exchange

- v.* to give something and receive something else in return, often with the implication that the items being traded are of equal or comparable value; (noun) the act of giving or taking something in return for something else; a place or system where goods or services can be bought, sold, or traded

synonym: trade, swap, interchange

(1) **exchange** rate, (2) **exchange** a few friendly words

My sister and I frequently **exchange** books, as we love reading.

oxygen

- n.* the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live

(1) the hydrogen binds the **oxygen**, (2) lack of **oxygen**

The passenger grabbed for the **oxygen** mask.

carbon

- n.* a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals

(1) **carbon** dioxide, (2) **carbon** emission

Trees absorb **carbon** dioxide and give off oxygen.

oxide

- n.* a chemical compound that contains at least one oxygen atom and one other element

(1) silver **oxide**, (2) combined **oxide**

The blood's red coloring comes from iron **oxide**.

mechanical

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

synonym: machinelike, automated, automatic

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

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

airbag

n. a safety device designed to inflate rapidly in the event of a collision, protecting the occupants of a vehicle and reducing the risk of injury or death

synonym : air cushion, safety bag, crash bag

(1) defective **airbag**, (2) **airbag** deployment

The **airbag** system in the car saved the driver's life in a severe crash.

electrical

adj. relating to electricity

(1) an **electrical** storm, (2) degree in **electrical** engineering

Actuators convert **electrical** pulses into motion.

chemical

adj. relating to or connected with chemistry;

synonym : chemic, synthetic

(1) toxic **chemicals**, (2) a **chemical** compound

The firm has grown into a large **chemical** manufacturing.

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.

communicate

v. 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.

eavesdrop

v. to listen to someone else's conversation without their knowledge or permission

synonym: listen in, spy, overhear

(1) **eavesdrop** conversation, (2) **eavesdrop** on a secret plot
I accidentally **eavesdropped** on a confidential meeting last week.

conversation

n. an informal talk between two or more people to exchange their views, ideas, information, etc.

synonym: chat, discussion, dialogue

(1) **conversation** in English, (2) a friendly **conversation**
Your **conversation** reflects your thoughts.

spike

n. a narrow, thin, pointed piece of metal, wood, etc.; a sudden large increase in the magnitude or concentration of something

synonym: end, spindle, point

(1) to **spike**, (2) to prevent blood sugar **spikes**

The recent **spike** in grain prices is partly due to the war in the producing countries.

cockroach

n. a flat, brown or black, chiefly nocturnal insects sometimes found in the home

synonym: roach

(1) **cockroach** killer, (2) have a **cockroach** phobia

Cockroaches sometimes cause allergic reactions in humans.

anesthetize

v. to administer a drug or other substance that causes a loss of sensation or consciousness, often to perform a medical procedure; to numb or dull a physical or emotional sensation

synonym: numb, sedate, drug

(1) **anesthetize** a patient, (2) **anesthetize** a wound

The dentist will **anesthetize** your mouth before removing your wisdom teeth.

temperature

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

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

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

chill

n. a feeling of coldness that makes one shiver; (verb) to make cool or cooler

synonym: coldness, coolness, (verb) freeze

(1) the **chill** of autumn, (2) feel a slight **chill**

His swear words cast a **chill** on the party.

experiment

n. 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.

prick

v. to make a small hole or puncture or to cause a slight, sharp pain; to stimulate or provoke a reaction or response; to use needles to administer a vaccine or medication

synonym: poke, jab, sting

(1) **prick** a balloon, (2) **prick** up her ears

He accidentally **pricked** his finger with the needle.

underneath

adv. under or below something else

synonym: below, under, beneath

(1) **underneath** the surface of the water, (2) **underneath** the laughter

The penny fell **underneath** the piano.

vibration

n. a continuous quick and slight shaking movement
synonym: oscillation, fluctuation, reverberation

(1) protection against **vibration**, (2) sympathetic **vibration**
Vibration displaced part of the mechanism.

zip

n. a fastener made of interlocking teeth or ridges that is used to join two edges or pieces of fabric; a sound or motion that resembles the sound made by a zipper when it is pulled; (of a computer) a popular file compression and archiving format; (short for Zone Improvement Plan) a system of postal codes used in the United States to help facilitate mail delivery more efficiently

synonym: fastener, postcode, slide

(1) **zip** code, (2) **zip** file

She put her phone in the **zip** pocket of her backpack.

axon

n. 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**.

electronics

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

synonym: technology, gadgets, circuitry

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

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

mess

n. a state of confusion, dirtiness, or untidiness; (verb) to fail to do something or to make something dirty or untidy

synonym: disarray, confusion, predicament

(1) have a whole **mess**, (2) get into a **mess**

He made a frightful **mess** in his room.

stick

- v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material

synonym : pierce, adhere, stay

(1) **stick** a key in a lock, (2) fire **stick**

You **stick** a bill in the change machine, and the coins pop out.

metal

- n.* a solid material that is typically hard, shiny, malleable, fusible, and ductile, with good electrical and thermal conductivity, and often used as a structural material, a conductor of heat or electricity, or for decorative purposes

synonym : alloy, metalloid

(1) **metal** fabrication, (2) precious **metal**

The construction worker used a **metal** saw to cut through the stubborn sheet metal.

surgery

- n.* medical treatment of injuries or diseases involving an incision with instruments and often removing or replacing some parts of the body; the branch of medical science that treats disease or injury by operative procedures

synonym : operation, (medical) procedure

(1) cardiac **surgery**, (2) the professor of **surgery**

He had undergone heart **surgery** years before.

gross

- adj.* being the total amount of something before any deductions; obese and ugly or unpleasant

synonym : before tax, total, abhorrent

(1) the **gross** amount, (2) **gross** injustice

The drastic reorganization has significantly increased this company's **gross** profits.

invention

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

synonym : creation, design, innovation

(1) the **invention** of new techniques, (2) common **invention**
Necessity is the mother of **invention**.

replace

v. to take the place of something

synonym: substitute, supersede, displace

(1) **replace** one word with another, (2) **replace** a phone
Eventually, the new design will **replace** all older models.

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.

lab

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

synonym: workshop, laboratory, research chamber

(1) **lab** instrument, (2) medical **lab**

The Prime Minister will pay a courtesy visit to the Nobel laureate's **lab**.

basement

n. a room or a part of a building that is partly or entirely below ground level

synonym: cellar, storage, vault

(1) four **basement** floor, (2) church **basement**

Underground rivers flow over a **basement** layer that is impervious to water.

laughter

n. the act or sound of laughing

synonym: laugh, chuckle, giggle

(1) **laughter** all around, (2) bring **laughter**

Some doctor says **laughter** is the best medicine.

tune

n. a musical composition or set of musical notes that are played or sung; (verb) to adjust or set something to a specific condition or standard

synonym : melody, harmony, (verb) adjust

(1) the **tune** of a song, (2) **tune** a piano

The band played a beautiful **tune** on their instruments.

tap

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.

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.

fir

n. a type of tall evergreen tree that is native to the northern hemisphere, with needle-like leaves and cones that stand upright on the branches

synonym : pine, spruce, cedar

(1) **fir** branch, (2) **fir** forest

The smell of fresh **fir** trees filled the air at the Christmas tree farm.

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**.

coding

n. the process of writing or creating computer code, which is a set of instructions that tells a computer what to do to

create software, websites, apps, and other digital products

synonym : encoding, programming, scripting

(1) **coding** skills, (2) **coding** challenge

Coding bootcamps have become a popular way to learn coding skills quickly.

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.

impulse

n. a sudden strong and unreflective wish or need to do something; the electrical discharge that travels along a nerve fiber

synonym : stimulation, provocation, urge

(1) a combative **impulse**, (2) profound religious **impulses**

Nerve **impulses** cross a synapse through the action of neurotransmitters.

smartphone

n. a mobile phone that functions as a computer and connects to the Internet

(1) **smartphone** app developer, (2) **smartphone** addict

Internet traffic volumes have increased significantly with the advent of **smartphones**.

earbud

n. a small electronic device that fits into the ear canal and is used for listening to music or for communication, especially when attached to a portable audio player or mobile phone

synonym : earphone, headphone

(1) wireless **earbud**, (2) sport **earbuds**

He bought noise-canceling **earbuds** to help him concentrate while working in a noisy environment.

battery

n. a device that is placed inside a car, gadget, equipment, etc. and that provides electrical power to them

synonym : electric cell, array, batch

(1) a dry **battery**, (2) **battery** charging

The engine did not start because the **battery** was flat.

magnet

n. an object or substance that can attract certain materials, such as iron or steel

synonym : magnetite, lodestone, attracting substance

(1) **magnet** attraction, (2) permanent **magnet**

The MRI machine uses **magnets** to produce images of the body's internal organs.

forth

adv. forward, outward, or onward in location, direction, or progress; into view or consideration; with confidence, boldness, or in the open

synonym : forward, onwards, ahead

(1) bring **forth** a beautiful vase, (2) call **forth** demand

I pushed **forth** with my new project, even though it would take much hard work.

currency

n. a system of money in general use in a particular country

synonym : money, tender, cash

(1) **currency** exchange, (2) digital **currency**

The **currency** used in this country is the Euro.

hop

v. to jump lightly and quickly on one foot or both feet; to move rapidly from one place to another; to travel using an aircraft, bus, etc.

synonym : jump, bounce, skip

(1) **hop** on one foot, (2) **hop** from one place to another

The rabbit **hopped** over the fence.

react

v. to take action in response to something

synonym : respond, reply, oppose

(1) **react** at a high temperature, (2) **react** against his way of thinking

How did he **react** to your idea?

gasp

v. to inhale sharply and audibly, often in response to strong emotion or sensation; to catch one's breath suddenly, often due to shock or surprise

synonym: breathe, pant, heave

(1) **gasp** for air, (2) **gasp** in shock

The audience **gasped** when the magician made the rabbit disappear from the hat.

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.

bass

n. the lowest part in polyphonic music; a type of fish belonging to the large order Perciformes, or perch-like fishes

synonym: low-pitch, resonance

(1) **bass** guitar, (2) **bass** fisherman

The **bass** in the music was so deep that it vibrated the floor.

audiophile

n. a person who is passionate about high-quality sound reproduction and often invests in and appreciates high-end audio equipment, such as speakers, headphones, or amplifiers

synonym: music lover, sound enthusiast

(1) avid **audiophile**, (2) passionate **audiophile**

The knowledgeable **audiophile** community prides itself on its discerning taste in sound reproduction.

awesome

adj. inspiring fear, admiration, or respect; very good, nice, fun, etc.

synonym: miraculous, marvelous, astounding

(1) **awesome** mental faculty, (2) have an **awesome** birthday

There is a lot of **awesome** nature and food in Hawaii.

invite

v. to ask someone to come or join; to offer an opportunity or possibility for something to happen or take place

synonym: ask, request, summon

(1) **invite** guests, (2) **invite** criticism

We want to **invite** you to our annual charity event.

beatbox

n. a style of vocal percussion or vocal mimicry in which a person creates rhythmic sounds and beats using their mouth, lips, tongue, and voice; (verb) to create percussive sounds, rhythms, and beats using the mouth, lips, tongue, and voice

synonym: mouth drum, lip-smack percussion

(1) **beatbox** rhythm, (2) **beatbox** battle

His **beatbox** performance at the concert was mind-blowing.

humankind

n. the whole of the living human inhabitants of the earth

synonym: humanity, human race, society

(1) **humankind** as a species, (2) history of **humankind**

On the geological time scale, **humankind** has existed for a brief moment.

revolution

n. 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

1. an ele_____al storm *adj.* relating to electricity
2. el_____fy a manufacturing process *v.* to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
3. re_____e a phone *v.* to take the place of something
4. call fo__h demand *adv.* forward, outward, or onward in location, direction, or progress; into view or consideration; with confidence, boldness, or in the open
5. eq__p an army *v.* to provide a person or a place with the things that are needed for a particular purpose or activity
6. a ch_____al compound *adj.* relating to or connected with chemistry;
7. co_____g skills *n.* the process of writing or creating computer code, which is a set of instructions that tells a computer what to do to create software, websites, apps, and other digital products
8. gr__s injustice *adj.* being the total amount of something before any deductions; obese and ugly or unpleasant
9. permanent ma____t *n.* an object or substance that can attract certain materials, such as iron or steel
10. defective ai____g *n.* a safety device designed to inflate rapidly in the event of a collision, protecting the occupants of a vehicle and reducing the risk of injury or death

ANSWERS: 1. electrical, 2. electrify, 3. replace, 4. forth, 5. equip, 6. chemical, 7. coding, 8. gross, 9. magnet, 10. airbag

- | | |
|---|---|
| 11. common in _____ on | <i>n.</i> the creation of a new device or process resulting from study and experimentation; the act of inventing |
| 12. beginning of the industrial rev _____ on | <i>n.</i> a large-scale attempt to overthrow the government of a country, often using violence or war; |
| 13. g __ p for air | <i>v.</i> to inhale sharply and audibly, often in response to strong emotion or sensation; to catch one's breath suddenly, often due to shock or surprise |
| 14. to prevent blood sugar sp __ es | <i>n.</i> a narrow, thin, pointed piece of metal, wood, etc.; a sudden large increase in the magnitude or concentration of something |
| 15. cu _____ cy exchange | <i>n.</i> a system of money in general use in a particular country |
| 16. re __ t at a high temperature | <i>v.</i> to take action in response to something |
| 17. g __ p in shock | <i>v.</i> to inhale sharply and audibly, often in response to strong emotion or sensation; to catch one's breath suddenly, often due to shock or surprise |
| 18. und _____ th the laughter | <i>adv.</i> under or below something else |
| 19. pr __ k up her ears | <i>v.</i> to make a small hole or puncture or to cause a slight, sharp pain; to stimulate or provoke a reaction or response; to use needles to administer a vaccine or medication |
| 20. eq __ p our children with some special skills | <i>v.</i> to provide a person or a place with the things that are needed for a particular purpose or activity |

ANSWERS: 11. invention, 12. revolution, 13. gasp, 14. spike, 15. currency, 16. react, 17. gasp, 18. underneath, 19. prick, 20. equip

21. be____x battle *n.* a style of vocal percussion or vocal mimicry in which a person creates rhythmic sounds and beats using their mouth, lips, tongue, and voice; (verb) to create percussive sounds, rhythms, and beats using the mouth, lips, tongue, and voice
22. l__g capacity *n.* either of the two organs in the chest that people and some animals use for breathing
23. co_____ch killer *n.* a flat, brown or black, chiefly nocturnal insects sometimes found in the home
24. degree in ele_____al engineering *adj.* relating to electricity
25. be____x rhythm *n.* a style of vocal percussion or vocal mimicry in which a person creates rhythmic sounds and beats using their mouth, lips, tongue, and voice; (verb) to create percussive sounds, rhythms, and beats using the mouth, lips, tongue, and voice
26. co___g challenge *n.* the process of writing or creating computer code, which is a set of instructions that tells a computer what to do to create software, websites, apps, and other digital products
27. b__s guitar *n.* the lowest part in polyphonic music; a type of fish belonging to the large order Perciformes, or perch-like fishes
28. have a whole m__s *n.* a state of confusion, dirtiness, or untidiness; (verb) to fail to do something or to make something dirty or untidy

ANSWERS: 21. beatbox, 22. lung, 23. cockroach, 24. electrical, 25. beatbox, 26. coding, 27. bass, 28. mess

29. ele_____cs store *n.* the branch of physics and technology that deals with the behavior and control of electrons and the use of electronic devices and systems
30. ane_____ze a patient *v.* to administer a drug or other substance that causes a loss of sensation or consciousness, often to perform a medical procedure; to numb or dull a physical or emotional sensation
31. com_____te his anxieties to the psychiatrist *v.* to share or exchange information with others by speaking, writing, moving your body, or using other signals
32. bring fo__h a beautiful vase *adv.* forward, outward, or onward in location, direction, or progress; into view or consideration; with confidence, boldness, or in the open
33. the gr__s amount *adj.* being the total amount of something before any deductions; obese and ugly or unpleasant
34. avid aud_____le *n.* a person who is passionate about high-quality sound reproduction and often invests in and appreciates high-end audio equipment, such as speakers, headphones, or amplifiers
35. bring la_____er *n.* the act or sound of laughing
36. re__t against his way of thinking *v.* to take action in response to something
37. cardiac su_____y *n.* medical treatment of injuries or diseases involving an incision with instruments and often removing or replacing some parts of the body; the branch of medical science that treats disease or injury by operative procedures

ANSWERS: 29. electronics, 30. anesthetize, 31. communicate, 32. forth, 33. gross, 34. audiophile, 35. laughter, 36. react, 37. surgery

38. l_b instrument *n.* a workplace for the conduct of scientific research; a laboratory
39. the atmospheric tem_____re *n.* the degree of hotness or coldness of a thing or place
40. an a__n of a nerve cell *n.* a long and slender projection of a nerve cell, or neuron, that sends out signals away from the nerve cell
41. ex_____ge a few friendly words *v.* to give something and receive something else in return, often with the implication that the items being traded are of equal or comparable value; (noun) the act of giving or taking something in return for something else; a place or system where goods or services can be bought, sold, or traded
42. t_p keyboard with an index finger *v.* to hit someone or something quickly, gently, and often repeatedly; to use existing resources, such as energy, knowledge, etc.
43. ca____n emission *n.* a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals
44. the in_____on of new techniques *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
45. pe_____ve a threat *v.* to become aware or conscious of something through the senses
46. und_____th the surface of the water *adv.* under or below something else

ANSWERS: 38. lab, 39. temperature, 40. axon, 41. exchange, 42. tap, 43. carbon, 44. invention, 45. perceive, 46. underneath

47. feel a slight ch__l *n.* a feeling of coldness that makes one shiver; (verb) to make cool or cooler
48. the a__n terminals *n.* a long and slender projection of a nerve cell, or neuron, that sends out signals away from the nerve cell
49. ea_____op on a secret plot *v.* to listen to someone else's conversation without their knowledge or permission
50. profound religious im_____es *n.* a sudden strong and unreflective wish or need to do something; the electrical discharge that travels along a nerve fiber
51. sma_____ne app developer *n.* a mobile phone that functions as a computer and connects to the Internet
52. church ba_____nt *n.* a room or a part of a building that is partly or entirely below ground level
53. the ch__l of autumn *n.* a feeling of coldness that makes one shiver; (verb) to make cool or cooler
54. in_____ly cope with *adv.* immediately
55. to sp__e *n.* a narrow, thin, pointed piece of metal, wood, etc.; a sudden large increase in the magnitude or concentration of something
56. 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.
57. be killed in_____ly *adv.* immediately
58. f_r branch *n.* a type of tall evergreen tree that is native to the northern hemisphere, with needle-like leaves and cones that stand upright on the branches

ANSWERS: 47. chill, 48. axon, 49. eavesdrop, 50. impulse, 51. smartphone, 52. basement, 53. chill, 54. instantly, 55. spike, 56. tap, 57. instantly, 58. fir

59. a dry ba____y *n.* a device that is placed inside a car, gadget, equipment, etc. and that provides electrical power to them
60. 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
61. ba____y charging *n.* a device that is placed inside a car, gadget, equipment, etc. and that provides electrical power to them
62. precious me__l *n.* a solid material that is typically hard, shiny, malleable, fusible, and ductile, with good electrical and thermal conductivity, and often used as a structural material, a conductor of heat or electricity, or for decorative purposes
63. wireless ea____d *n.* a small electronic device that fits into the ear canal and is used for listening to music or for communication, especially when attached to a portable audio player or mobile phone
64. la____er all around *n.* the act or sound of laughing
65. ne____l stem cells *adj.* of or relating to a nerve or the nervous system that includes the brain
66. mo____g ceremony *adj.* causing strong emotions or feelings, especially sadness or sympathy
67. medical l_b *n.* a workplace for the conduct of scientific research; a laboratory
68. the professor of su____y *n.* medical treatment of injuries or diseases involving an incision with instruments and often removing or replacing some parts of the body; the branch of medical science that treats disease or injury by operative procedures

ANSWERS: 59. battery, 60. neuron, 61. battery, 62. metal, 63. earbud, 64. laughter, 65. neural, 66. moving, 67. lab, 68. surgery

69. con_____ion in English *n.* an informal talk between two or more people to exchange their views, ideas, information, etc.
70. extreme tem_____res *n.* the degree of hotness or coldness of a thing or place
71. get into a m__s *n.* a state of confusion, dirtiness, or untidiness; (verb) to fail to do something or to make something dirty or untidy
72. f_r forest *n.* a type of tall evergreen tree that is native to the northern hemisphere, with needle-like leaves and cones that stand upright on the branches
73. combined ox__e *n.* a chemical compound that contains at least one oxygen atom and one other element
74. digital cu_____cy *n.* a system of money in general use in a particular country
75. a political rev_____on *n.* a large-scale attempt to overthrow the government of a country, often using violence or war;
76. pe_____ve light *v.* to become aware or conscious of something through the senses
77. sport ea____ds *n.* a small electronic device that fits into the ear canal and is used for listening to music or for communication, especially when attached to a portable audio player or mobile phone
78. exp_____nt design *n.* the scientific test conducted to observe what happens and gain new knowledge

ANSWERS: 69. conversation, 70. temperature, 71. mess, 72. fir, 73. oxide, 74. currency, 75. revolution, 76. perceive, 77. earbud, 78. experiment

79. ai___g deployment *n.* a safety device designed to inflate rapidly in the event of a collision, protecting the occupants of a vehicle and reducing the risk of injury or death
80. ne___l networks in AI *adj.* of or relating to a nerve or the nervous system that includes the brain
81. pr___k a balloon *v.* to make a small hole or puncture or to cause a slight, sharp pain; to stimulate or provoke a reaction or response; to use needles to administer a vaccine or medication
82. in___e criticism *v.* to ask someone to come or join; to offer an opportunity or possibility for something to happen or take place
83. the hydrogen binds the ox___n *n.* the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live
84. st___k a key in a lock *v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
85. four ba_____nt floor *n.* a room or a part of a building that is partly or entirely below ground level
86. the t___e of a song *n.* a musical composition or set of musical notes that are played or sung; (verb) to adjust or set something to a specific condition or standard
87. re_____e one word with another *v.* to take the place of something

ANSWERS: 79. airbag, 80. neural, 81. prick, 82. invite, 83. oxygen, 84. stick, 85. basement, 86. tune, 87. replace

88. b__s fisherman *n.* the lowest part in polyphonic music; a type of fish belonging to the large order Perciformes, or perch-like fishes
89. ex_____ge rate *v.* to give something and receive something else in return, often with the implication that the items being traded are of equal or comparable value; (noun) the act of giving or taking something in return for something else; a place or system where goods or services can be bought, sold, or traded
90. have a co_____ch phobia *n.* a flat, brown or black, chiefly nocturnal insects sometimes found in the home
91. aw_____e mental faculty *adj.* inspiring fear, admiration, or respect; very good, nice, fun, etc.
92. t__e a piano *n.* a musical composition or set of musical notes that are played or sung; (verb) to adjust or set something to a specific condition or standard
93. fire st__k *v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
94. el_____fy the audience *v.* to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
95. z_p code *n.* a fastener made of interlocking teeth or ridges that is used to join two edges or pieces of fabric; a sound or motion that resembles the sound made by a zipper when it is pulled; (of a computer) a popular file compression and archiving format; (short for Zone Improvement Plan) a system of postal codes used in the United States to help facilitate mail delivery more efficiently

ANSWERS: 88. bass, 89. exchange, 90. cockroach, 91. awesome, 92. tune, 93. stick, 94. electrify, 95. zip

96. ele_____cs industry *n.* the branch of physics and technology that deals with the behavior and control of electrons and the use of electronic devices and systems
97. h_p from one place to another *v.* to jump lightly and quickly on one foot or both feet; to move rapidly from one place to another; to travel using an aircraft, bus, etc.
98. protection against vi_____on *n.* a continuous quick and slight shaking movement
99. sma_____ne addict *n.* a mobile phone that functions as a computer and connects to the Internet
100. a theoretical concept in neu_____nce *n.* the scientific study of the function, structure, and disorder of the brain and the nervous system
101. sympathetic vi_____on *n.* a continuous quick and slight shaking movement
102. series of exp_____nts *n.* the scientific test conducted to observe what happens and gain new knowledge
103. basic br__n function *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
104. p__p blood throughout the body *v.* to cause water, air, gas, etc. to move from one place to another by using mechanical equipment; to get or supply something such as money, information, etc. in significant quantities
105. in___e guests *v.* to ask someone to come or join; to offer an opportunity or possibility for something to happen or take place

ANSWERS: 96. electronics, 97. hop, 98. vibration, 99. smartphone, 100. neuroscience, 101. vibration, 102. experiment, 103. brain, 104. pump, 105. invite

106. ane_____ze a wound *v.* to administer a drug or other substance that causes a loss of sensation or consciousness, often to perform a medical procedure; to numb or dull a physical or emotional sensation
107. a friendly con_____ion *n.* an informal talk between two or more people to exchange their views, ideas, information, etc.
108. the branch of neu_____nce *n.* the scientific study of the function, structure, and disorder of the brain and the nervous system
109. hu_____nd as a species *n.* the whole of the living human inhabitants of the earth
110. mo___g experience *adj.* causing strong emotions or feelings, especially sadness or sympathy
111. the influence of mec_____al action *adj.* operated by a machine, relating to or concerned with machinery or tools
112. 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
113. a combative im_____e *n.* a sudden strong and unreflective wish or need to do something; the electrical discharge that travels along a nerve fiber
114. history of hu_____nd *n.* the whole of the living human inhabitants of the earth
115. lack of ox___n *n.* the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live

ANSWERS: 106. anesthetize, 107. conversation, 108. neuroscience, 109. humankind, 110. moving, 111. mechanical, 112. neuron, 113. impulse, 114. humankind, 115. oxygen

116. permanent br__n damage *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
117. passionate aud_____le *n.* a person who is passionate about high-quality sound reproduction and often invests in and appreciates high-end audio equipment, such as speakers, headphones, or amplifiers
118. do l__g transplantation *n.* either of the two organs in the chest that people and some animals use for breathing
119. h_p on one foot *v.* to jump lightly and quickly on one foot or both feet; to move rapidly from one place to another; to travel using an aircraft, bus, etc.
120. z_p file *n.* a fastener made of interlocking teeth or ridges that is used to join two edges or pieces of fabric; a sound or motion that resembles the sound made by a zipper when it is pulled; (of a computer) a popular file compression and archiving format; (short for Zone Improvement Plan) a system of postal codes used in the United States to help facilitate mail delivery more efficiently
121. toxic ch_____als *adj.* relating to or connected with chemistry;
122. ma___t attraction *n.* an object or substance that can attract certain materials, such as iron or steel
123. me__l fabrication *n.* a solid material that is typically hard, shiny, malleable, fusible, and ductile, with good electrical and thermal conductivity, and often used as a structural material, a conductor of heat or electricity, or for decorative purposes

ANSWERS: 116. brain, 117. audiophile, 118. lung, 119. hop, 120. zip, 121. chemical, 122. magnet, 123. metal

124. a mec_____al style of writing *adj.* operated by a machine, relating to or concerned with machinery or tools
125. silver ox__e *n.* a chemical compound that contains at least one oxygen atom and one other element
126. ca___n dioxide *n.* a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals
127. have an aw_____e birthday *adj.* inspiring fear, admiration, or respect; very good, nice, fun, etc.
128. com_____te well with my advisor *v.* to share or exchange information with others by speaking, writing, moving your body, or using other signals
129. p__p a secret out of success *v.* to cause water, air, gas, etc. to move from one place to another by using mechanical equipment; to get or supply something such as money, information, etc. in significant quantities
130. ea_____op conversation *v.* to listen to someone else's conversation without their knowledge or permission

ANSWERS: 124. mechanical, 125. oxide, 126. carbon, 127. awesome, 128. communicate, 129. pump, 130. eavesdrop

Session 3: Fill in the Blanks

1. Eventually, the new design will _____ all older models.
v. to take the place of something
2. He has terminal _____ cancer.
n. either of the two organs in the chest that people and some animals use for breathing
3. The recent _____ in grain prices is partly due to the war in the producing countries.
n. a narrow, thin, pointed piece of metal, wood, etc.; a sudden large increase in the magnitude or concentration of something
4. On the geological time scale, _____ has existed for a brief moment.
n. the whole of the living human inhabitants of the earth
5. Cities around the world set records for highest _____ this summer.
n. the degree of hotness or coldness of a thing or place
6. Internet traffic volumes have increased significantly with the advent of _____.
n. a mobile phone that functions as a computer and connects to the Internet
7. The band played a beautiful _____ on their instruments.
n. a musical composition or set of musical notes that are played or sung; (verb) to adjust or set something to a specific condition or standard
8. I remembered that person _____ and never forgot.
adv. immediately

ANSWERS: 1. replace, 2. lung, 3. spike, 4. humankind, 5. temperatures, 6. smartphones, 7. tune, 8. instantly

9. The dentist will _____ your mouth before removing your wisdom teeth.
- v. to administer a drug or other substance that causes a loss of sensation or consciousness, often to perform a medical procedure; to numb or dull a physical or emotional sensation
10. He accidentally _____ his finger with the needle.
- v. to make a small hole or puncture or to cause a slight, sharp pain; to stimulate or provoke a reaction or response; to use needles to administer a vaccine or medication
11. _____ sometimes cause allergic reactions in humans.
- n. a flat, brown or black, chiefly nocturnal insects sometimes found in the home
12. Nerve _____ cross a synapse through the action of neurotransmitters.
- n. a sudden strong and unreflective wish or need to do something; the electrical discharge that travels along a nerve fiber
13. My sister and I frequently _____ books, as we love reading.
- v. to give something and receive something else in return, often with the implication that the items being traded are of equal or comparable value; (noun) the act of giving or taking something in return for something else; a place or system where goods or services can be bought, sold, or traded
14. The construction company _____ the building with an earthquake-resistant device.
- v. to provide a person or a place with the things that are needed for a particular purpose or activity
15. The audience _____ when the magician made the rabbit disappear from the hat.
- v. to inhale sharply and audibly, often in response to strong emotion or sensation; to catch one's breath suddenly, often due to shock or surprise

ANSWERS: 9. anesthetize, 10. pricked, 11. Cockroaches, 12. impulses, 13. exchange, 14. equipped, 15. gasped

16. 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

17. I accidentally _____ on a confidential meeting last week.

- v.* to listen to someone else's conversation without their knowledge or permission

18. The drastic reorganization has significantly increased this company's _____ profits.

- adj.* being the total amount of something before any deductions; obese and ugly or unpleasant

19. 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

20. A _____ engineer is still in demand in many companies.

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

21. The firm has grown into a large _____ manufacturing.

- adj.* relating to or connected with chemistry;

22. Necessity is the mother of _____.

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

23. Actuators convert _____ pulses into motion.

- adj.* relating to electricity

ANSWERS: 16. electrify, 17. eavesdropped, 18. gross, 19. brain, 20. mechanical, 21. chemical, 22. invention, 23. electrical

24. The smell of fresh ___ trees filled the air at the Christmas tree farm.
- n.* a type of tall evergreen tree that is native to the northern hemisphere, with needle-like leaves and cones that stand upright on the branches
25. The blood's red coloring comes from iron _____.
- n.* a chemical compound that contains at least one oxygen atom and one other element
26. How did he _____ to your idea?
- v.* to take action in response to something
27. Underground rivers flow over a _____ layer that is impervious to water.
- n.* a room or a part of a building that is partly or entirely below ground level
28. To expand the company, we must ___ new human resources.
- v.* to hit someone or something quickly, gently, and often repeatedly; to use existing resources, such as energy, knowledge, etc.
29. The engine did not start because the _____ was flat.
- n.* a device that is placed inside a car, gadget, equipment, etc. and that provides electrical power to them
30. She put her phone in the ___ pocket of her backpack.
- n.* a fastener made of interlocking teeth or ridges that is used to join two edges or pieces of fabric; a sound or motion that resembles the sound made by a zipper when it is pulled; (of a computer) a popular file compression and archiving format; (short for Zone Improvement Plan) a system of postal codes used in the United States to help facilitate mail delivery more efficiently
31. He bought noise-canceling _____ to help him concentrate while working in a noisy environment.
- n.* a small electronic device that fits into the ear canal and is used for listening to music or for communication, especially when attached to a portable audio player or mobile phone

ANSWERS: 24. fir, 25. oxide, 26. react, 27. basement, 28. tap, 29. battery, 30. zip,

31. earbuds

32. The _____ by the citizen resulted in a redistribution of wealth.
- n.* a large-scale attempt to overthrow the government of a country, often using violence or war;
33. The rabbit _____ over the fence.
- v.* to jump lightly and quickly on one foot or both feet; to move rapidly from one place to another; to travel using an aircraft, bus, etc.
34. The Prime Minister will pay a courtesy visit to the Nobel laureate's _____.
- n.* a workplace for the conduct of scientific research; a laboratory
35. The _____ in the music was so deep that it vibrated the floor.
- n.* the lowest part in polyphonic music; a type of fish belonging to the large order Perciformes, or perch-like fishes
36. The _____ used in this country is the Euro.
- n.* a system of money in general use in a particular country
37. His _____ showed highly positive results.
- n.* the scientific test conducted to observe what happens and gain new knowledge
38. There is a lot of _____ nature and food in Hawaii.
- adj.* inspiring fear, admiration, or respect; very good, nice, fun, etc.
39. We are developing a technology to promote the elongation and regeneration of sensory nerve _____.
- n.* a long and slender projection of a nerve cell, or neuron, that sends out signals away from the nerve cell

ANSWERS: 32. revolution, 33. hopped, 34. lab, 35. bass, 36. currency, 37. experiments, 38. awesome, 39. axons

40. His swear words cast a _____ on the party.
- n.* a feeling of coldness that makes one shiver; (verb) to make cool or cooler
41. The MRI machine uses _____ to produce images of the body's internal organs.
- n.* an object or substance that can attract certain materials, such as iron or steel
42. The knowledgeable _____ community prides itself on its discerning taste in sound reproduction.
- n.* a person who is passionate about high-quality sound reproduction and often invests in and appreciates high-end audio equipment, such as speakers, headphones, or amplifiers
43. Australia is widely _____ as having low levels of corruption.
- v.* to become aware or conscious of something through the senses
44. He made a frightful _____ in his room.
- n.* a state of confusion, dirtiness, or untidiness; (verb) to fail to do something or to make something dirty or untidy
45. We want to _____ you to our annual charity event.
- v.* to ask someone to come or join; to offer an opportunity or possibility for something to happen or take place
46. He was alert and could not _____ any critical information out of him.
- v.* to cause water, air, gas, etc. to move from one place to another by using mechanical equipment; to get or supply something such as money, information, etc. in significant quantities
47. _____ bootcamps have become a popular way to learn coding skills quickly.
- n.* the process of writing or creating computer code, which is a set of instructions that tells a computer what to do to create software, websites, apps, and other digital products

ANSWERS: 40. chill, 41. magnets, 42. audiophile, 43. perceived, 44. mess, 45. invite, 46. pump, 47. Coding

48. 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
49. Our university is famous for its professors, who are well-versed in behavioral _____.
n. the scientific study of the function, structure, and disorder of the brain and the nervous system
50. His _____ speech about his struggles with addiction brought tears to the audience's eyes.
adj. causing strong emotions or feelings, especially sadness or sympathy
51. The penny fell _____ the piano.
adv. under or below something else
52. Your _____ reflects your thoughts.
n. an informal talk between two or more people to exchange their views, ideas, information, etc.
53. _____ displaced part of the mechanism.
n. a continuous quick and slight shaking movement
54. I pushed _____ with my new project, even though it would take much hard work.
adv. forward, outward, or onward in location, direction, or progress; into view or consideration; with confidence, boldness, or in the open
55. Trees absorb _____ dioxide and give off oxygen.
n. a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals

ANSWERS: 48. neuron, 49. neuroscience, 50. moving, 51. underneath, 52. conversation, 53. Vibration, 54. forth, 55. carbon

56. The passenger grabbed for the _____ mask.
- n.* the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live
57. Some doctor says _____ is the best medicine.
- n.* the act or sound of laughing
58. The company specializes in manufacturing and selling cutting-edge _____.
- n.* the branch of physics and technology that deals with the behavior and control of electrons and the use of electronic devices and systems
59. You _____ a bill in the change machine, and the coins pop out.
- v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
60. 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
61. His _____ performance at the concert was mind-blowing.
- n.* a style of vocal percussion or vocal mimicry in which a person creates rhythmic sounds and beats using their mouth, lips, tongue, and voice; (verb) to create percussive sounds, rhythms, and beats using the mouth, lips, tongue, and voice
62. He had undergone heart _____ years before.
- n.* medical treatment of injuries or diseases involving an incision with instruments and often removing or replacing some parts of the body; the branch of medical science that treats disease or injury by operative procedures

ANSWERS: 56. oxygen, 57. laughter, 58. electronics, 59. stick, 60. communicate, 61. beatbox, 62. surgery

63. The construction worker used a _____ saw to cut through the stubborn sheet metal.
- n.* a solid material that is typically hard, shiny, malleable, fusible, and ductile, with good electrical and thermal conductivity, and often used as a structural material, a conductor of heat or electricity, or for decorative purposes
64. There was a disturbance of _____ function.
- adj.* of or relating to a nerve or the nervous system that includes the brain
65. The _____ system in the car saved the driver's life in a severe crash.
- n.* a safety device designed to inflate rapidly in the event of a collision, protecting the occupants of a vehicle and reducing the risk of injury or death

ANSWERS: 63. metal, 64. neural, 65. airbag