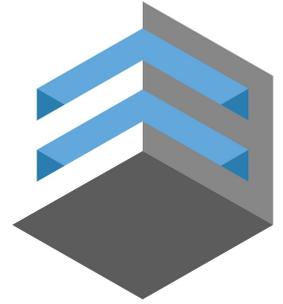


Englist.me



Vocabulary Builder Reference from...

Carl Schoonover: How to look inside the brain | TED Talk

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

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**.

diagram

n. a simplified illustration of the appearance, structure, or workings of something

synonym : chart, figure, graph

(1) 3D **diagram**, (2) in a **diagram**

He is drawing a **diagram** illustrating how the equipment operates.

visual

adj. relating to seeing or sight

synonym : optical, graphical, visible

(1) **visual** navigation, (2) field of **visual** arts

The building makes a remarkable **visual** impact.

optic

adj. relating to vision or the eyes; relating to or involving light or optics

synonym : visual, ocular, visualized

(1) **optic** fiber, (2) **optic** illusion

The campaign ad was designed with bright colors and bold

fonts for maximum **optic** impact.

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.

representation

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

synonym: delegacy, manifestation, expression

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

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

substantially

adv. to a great extent or degree

synonym: considerably, essentially, largely

(1) the price went up **substantially**, (2) the house was **substantially** built

The proportion of female engineers has **substantially** increased.

complicated

adj. involving a lot of different things or parts in a way that is difficult to understand or analyze

synonym: complex, convoluted, intricate

(1) a **complicated** process, (2) become increasingly **complicated**

He did **complicated** pen-and-ink drawings in just a few days.

intervene

v. to intentionally get involved in a situation to improve it or prevent it from getting worse

synonym: interfere, mediate, intercede

(1) **intervene** in a dispute, (2) **intervene** between quarreling parties

Following international law, our country does not **intervene** in

the internal affairs of our neighbors.

keyboard

n. device consisting of a set of keys on a piano, typewriter, computer, etc., that you press to make it work

synonym : console, piano

(1) numeric **keyboard**, (2) **keyboard** instruments

Please strike the "enter" on the **keyboard**.

crack

v. to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking

synonym : snap, burst, break

(1) **crack** an eggshell, (2) a **crack** in a board

He that would eat the kernel must **crack** the nut.

glimpse

n. a brief or partial view; the act of seeing something or someone for a very short time or only partly

synonym : glance, peek, sighting

(1) a momentary **glimpse**, (2) passing **glimpse**

Our team caught a **glimpse** of the world-class technique in this game.

skull

n. a bone framework that surrounds the brain and gives the head its shape

synonym : cranium, scalp, brain

(1) **skull** fracture, (2) have a thick **skull**

Archaeologists found a Neanderthal **skull** at that historic site.

slice

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

synonym : piece, portion, slit

(1) a **slice** of the company's revenue, (2) **slice** a tomato thin

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

microscope

n. an instrument used to see objects or substances that are too small to be seen with the naked eye

synonym: lens, magnifier, eyepiece

(1) **microscope** slide, (2) electron **microscope**

I used an optical **microscope** to observe the small organisms in the water sample.

structure

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

synonym: construction, architecture, establishment

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

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

suddenly

adv. quickly and unexpectedly

synonym: abruptly, unexpectedly, unawares

(1) **suddenly** attacked by an enemy, (2) die **suddenly**

Who answers **suddenly** knows little.

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.

stain

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

synonym: discolor, tarnish, defile

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

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

tissue

n. an ensemble of similar cells of the animal or plant that together carry out a specific function

synonym: structure, texture, anatomy

(1) a facial **tissue**, (2) loss of muscle **tissue**

The researcher separated the nervous **tissue** for microscopic examinations.

develop

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

synonym: evolve, progress, advance

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

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

launch

v. to send or propel something into the air or space using a device such as a rocket, missile, or spacecraft; to make something available or on sale for the first time

synonym: start, initiate, begin

(1) **launch** a spaceship into orbit, (2) **launch** a big attack

The company is set to **launch** its new product line next month.

modern

adj. of or belonging to the present time or recent times

synonym: contemporary, stylish, current

(1) **modern** poetry, (2) pre- **modern** agricultural society

Their headquarters are in a **modern** skyscraper.

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**.

rev

n. a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per

minute

synonym : revolution, RPM, speed

(1) low- **rev** engine, (2) **rev** up the crowd

He stepped on the gas pedal, and the engine released a loud **rev**.

label

n. a small piece of paper, fabric, or other material attached to an object and giving information about it; (verb) to assign to a category

synonym : tag, mark, identifier

(1) a mailing **label**, (2) **label** a bag with my name

The **label** on the food package lists the ingredients and nutritional information.

visible

adj. capable of being seen; or open to easy view

synonym : clear, observable, seeable

(1) **visible** stars, (2) **visible** by X-ray

My home is easily **visible** from the shore.

span

n. the entire length of something, such as time or space from beginning to end; the amount of space that something covers

synonym : interval, period, length

(1) the **span** of a bird's wings, (2) the average life **span**

He slightly modified the **span** of training because it was just before a match.

anatomy

n. the scientific study that deals with the physical structure of humans, animals, or plants

(1) animal **anatomy**, (2) **anatomy** of a country's collapse

The professor explained the **anatomy** of the nervous system.

yield

n. the total output of crops, profits, etc. that are produced; (verb) to produce or supply helpful something, such as a profit, an amount of food, or information

synonym : proceeds, harvest, output

(1) corn **yield**, (2) the **yield** on the bond
The company's stock gives a high **yield**.

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.

transistor

n. a semiconductor device that can be used to amplify or switch electronic signals and power which is an essential component in modern electronics

synonym : semiconductor, microchip, circuit

(1) **transistor** radio, (2) **transistor** circuit

The invention of the **transistor** revolutionized the field of electronics.

circuit

n. (in electrical engineering) an electrical device that provides a path for electrical current to flow; a journey or route around a particular place or area

synonym : route, course, rotation

(1) **circuit** breaker, (2) federal **circuit** courts

An intelligent battery has a voltage monitoring **circuit**.

visualize

v. to form a mental image or concept of something; to make something visible

synonym : imagine, picture, envision

(1) **visualize** data, (2) **visualize** flying through space

She tried to **visualize** the layout of the new house in her mind.

involve

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

synonym : implicate, include, engage

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

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

fluorescent

adj. emitting or reflecting vibrant and vivid light, especially under ultraviolet light; describing a type of lamp or bulb that produces such light

synonym : luminescent, phosphorescent, radiant

(1) **fluorescent** bulb, (2) **fluorescent** material

The office installed new **fluorescent** lighting to save energy.

protein

n. a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues

(1) stress **protein**, (2) **protein** synthesis

The body needs a certain amount of **protein** to build and repair tissues.

oddly

adv. in a way that is unexpected, strange, or peculiar

synonym : strangely, peculiarly, weirdly

(1) behave **oddly**, (2) **oddly** familiar

He walked into the party with an **oddly** dressed companion, causing everyone to stare.

luminescent

adj. emitting light or glowing softly, often without heat; having the ability to produce or emit light, especially through chemical reactions or by absorbing and then releasing energy

synonym : glowing, radiant, shining

(1) soft **luminescent** glow, (2) mesmerizing **luminescent** effect

The **luminescent** stars illuminated the night sky.

jellyfish

n. a marine creature with a soft, jelly-like body and tentacles for stinging

synonym : medusa, sea nettle, moon jelly

(1) spineless **jellyfish**, (2) **jellyfish** sting

The beach was filled with hundreds of **jellyfish**, so swimming

was not recommended.

glow

v. to give out a steady, strong light

synonym: shine, radiate, beam

(1) **glow** a pale orange, (2) **glow** gold in the light

The sun was setting, and the sky **glowed** with beautiful colors.

variant

n. something that is slightly different from others of the same type

synonym: variation, modification, variance

(1) **variant** types of pigeon, (2) a **variant** of the same word

The first **variant** of the virus appeared in less than a month.

genetically

adv. in a way that relates to or is produced by genes (= the units in the cells of a living thing received by an animal or plant from its parents) or heredity

synonym: hereditary, inherited, family-related

(1) **genetically** inherited traits, (2) **genetically** manipulated plant

The **genetically** modified crops were resistant to pests and required less water.

engineer

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

synonym: architect, creator, builder

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

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

glowing

adj. highly enthusiastic; greatly praised

synonym: burning, bright, flaming

(1) **glowing** reviews, (2) **glowing** cheeks

The western sky was **glowing** pink.

identify

v. to recognize someone or something and say or prove who or what they are

synonym: determine, specify, recognize

(1) **identify** handwriting, (2) **identify** gene sequences
I will introduce you to how to **identify** the leading causes of the malfunction.

individual

n. a single person or thing, as distinct from a group
synonym: person, being, self

(1) a private **individual**, (2) **individual** freedom

As an **individual**, he had the right to make his own decisions and live his life as he saw fit.

molecular

adj. of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds)

synonym: microscopic, atomic

(1) **molecular** structure, (2) **molecular** biology

Molecular weight is the sum of all the atoms.

component

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

synonym: element, part, factor

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

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

molecule

n. a group of two or more atoms held together by attractive forces known as chemical bonds

synonym: particle, element, atom

(1) small **molecules**, (2) **molecule** behavior

The shape of the DNA **molecule** is a double helix.

antibody

n. a substance produced in the blood that attacks and kills harmful bacteria, viruses, etc., to fight disease

(1) produce **antibody**, (2) **antibody** against bacteria

This pharmaceutical company is developing **antibody** drugs with fewer side effects.

henchman

n. a loyal follower or assistant, often used to describe someone willing to do the dirty or illegal work for a leader or criminal

synonym : accomplice, assistant, helper

(1) loyal **henchman**, (2) a boss-and- **henchman** relationship

The criminal's **henchman** carried out his dirty work.

immune

adj. protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells

synonym : resistant, unsusceptible, unaffected

(1) **immune** from criminal prosecution, (2) the cell of the **immune** system

The vaccination does not necessarily make you completely **immune**.

recognize

v. to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered

synonym : acknowledge, identify, admit

(1) **recognize** talent, (2) **recognize** achievement

It's important to **recognize** your strengths and weaknesses.

specific

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

synonym : particular, definite, distinct

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

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

virus

n. a tiny infectious organic material that causes disease in people, animals, and plants

synonym : bacterium, germ, ailment

(1) spread of the **virus**, (2) a strain of **virus**

An infected person in the hospital will likely pass the **virus** to others.

invade

v. to enter aggressively into another's territory by military force for conquest and occupation

synonym: intrude, raid, overrun

(1) **invade** other tissues, (2) **invade** his privacy

I have no intention to **invade** your privacy.

individually

adv. separately or apart from others

synonym: separately, one by one, independently

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

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

serotonin

n. a neurotransmitter (= a chemical that carries nerve impulses) involved in, e.g., sleep, emotion, and memory

(1) **serotonin** drug, (2) **serotonin** levels

The medicine works by boosting **serotonin** levels in the brain.

transport

n. a system for moving people or products from one location to another using automobiles, roads, and so on

synonym: shipment, transit, conveyance

(1) **transport** facilities, (2) access to public **transport**

Enhanced rail **transportation** is crucial for our business.

context

n. the circumstances, facts, or conditions that surround a particular event, situation, or statement and that give it meaning

synonym: background, setting, environment

(1) historical **context**, (2) legal **context**

It's important to understand the **context** of a situation before making a decision.

disease

n. a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems

synonym: illness, ailment, affliction

(1) **disease** prevention, (2) **disease** control

The doctor diagnosed him with a rare **disease** that had no known cure.

depression

n. a mental condition in which a person feels very unhappy and without hope for the future; a severe recession in an economy or market

synonym : recession, slump, despair

(1) the Great **Depression**, (2) the root problem of her **depression**

Depression symptoms might include a decrease in appetite and weight loss.

anxiety

n. a feeling of worry, nervousness, or unease about something that is happening or might happen in the future

synonym : concern, dread, agita

(1) diagnosis of **anxiety** disorder, (2) **anxiety** for knowledge
She waited for her daughter with **anxiety**.

critic

n. someone who expresses opinions about the quality of books, music, etc.

synonym : pundit, analyst, attacker

(1) art **critic**, (2) severe **critic**

Advocates for legal reform hear less harsh words from their **critics**.

machinery

n. a group of large machines or the components of a machine that make it work; social institution functions or structure for doing something

synonym : apparatus, appliance, equipment

(1) heavy **machinery**, (2) inactive **machinery**

The **machinery** of audit formally issued a business improvement order.

get-go

n. the start or beginning of something

synonym : start, beginning, initiation

(1) at the **get-go**, (2) work well from the **get-go**

From the **get-go**, it was clear that the project would be a challenge.

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.

detect

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

synonym: catch, observe, notice

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

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

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**.

palette

n. a thin board or tablet used by artists to mix and apply paint; a range of colors or shades used in a particular work of art

synonym: board, plate, color chart

(1) **palette** knife, (2) **palette** art

The artist selected colors from her **palette** to paint a beautiful landscape.

feeble

adj. lacking physical or mental strength; weak or frail; lacking force, effectiveness, or impact

synonym: weak, frail, feeble-minded

(1) **feeble** attempt, (2) **feeble** excuse

The older man's **feeble** voice suggested he was not feeling well.

scratch

v. to cut or damage the surface of something or the skin with a sharp or pointed object

synonym: claw, rub, scrape

(1) **scratch** off a name, (2) **scratch** my signature

Don't **scratch** your mosquito bites.

ready-made

adj. (of a product) already made or prepared; (of an idea or solution) preconceived or complete and requiring no further development or work

synonym: pre-made, off-the-shelf, prefab

(1) **ready-made** templates, (2) **ready-made** curtains

I prefer using **ready-made** meals when short on time and don't feel like cooking from scratch.

refined

adj. made pure by having impurities or unwanted elements removed by processing

synonym: cultured, purified, tasteful

(1) adopt a **refined** attitude, (2) a lot of **refined** sugar

She was highly **refined** in her choice of apparel.

steady

adj. firmly fixed, supported, or balanced; not shaking or moving

synonym: stable, solid, secure

(1) **steady** increase, (2) take a **steady** job

The patient's vital signs are **steady**, indicating a stable condition.

Session 2: Spelling

1. tra_____or radio *n.* a semiconductor device that can be used to amplify or switch electronic signals and power which is an essential component in modern electronics
2. an_____y for knowledge *n.* a feeling of worry, nervousness, or unease about something that is happening or might happen in the future
3. stress pr_____n *n.* a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues
4. the branch of neu_____nce *n.* the scientific study of the function, structure, and disorder of the brain and the nervous system
5. la__l a bag with my name *n.* a small piece of paper, fabric, or other material attached to an object and giving information about it; (verb) to assign to a category
6. die su_____ly *adv.* quickly and unexpectedly
7. im___e from criminal prosecution *adj.* protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells
8. the s__n of a bird's wings *n.* the entire length of something, such as time or space from beginning to end; the amount of space that something covers

ANSWERS: 1. transistor, 2. anxiety, 3. protein, 4. neuroscience, 5. label, 6. suddenly, 7. immune, 8. span

9. soft lum_____nt glow *adj.* emitting light or glowing softly, often without heat; having the ability to produce or emit light, especially through chemical reactions or by absorbing and then releasing energy
10. mo_____ar structure *adj.* of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds)
11. gl_____g cheeks *adj.* highly enthusiastic; greatly praised
12. the Great Dep_____on *n.* a mental condition in which a person feels very unhappy and without hope for the future; a severe recession in an economy or market
13. historical co_____t *n.* the circumstances, facts, or conditions that surround a particular event, situation, or statement and that give it meaning
14. inactive ma_____ry *n.* a group of large machines or the components of a machine that make it work; social institution functions or structure for doing something
15. toxic ch_____als *adj.* relating to or connected with chemistry;
16. work well from the ge____o *n.* the start or beginning of something
17. tra_____or circuit *n.* a semiconductor device that can be used to amplify or switch electronic signals and power which is an essential component in modern electronics

ANSWERS: 9. luminescent, 10. molecular, 11. glowing, 12. depression, 13. context, 14. machinery, 15. chemical, 16. get-go, 17. transistor

18. federal ci_____t courts *n.* (in electrical engineering) an electrical device that provides a path for electrical current to flow; a journey or route around a particular place or area
19. ev___e over the past decade *v.* to develop gradually, or to cause the development of something or someone gradually
20. se_____in drug *n.* a neurotransmitter (= a chemical that carries nerve impulses) involved in, e.g., sleep, emotion, and memory
21. the yi__d on the bond *n.* the total output of crops, profits, etc. that are produced; (verb) to produce or supply helpful something, such as a profit, an amount of food, or information
22. electron mic_____pe *n.* an instrument used to see objects or substances that are too small to be seen with the naked eye
23. op__c illusion *adj.* relating to vision or the eyes; relating to or involving light or optics
24. animal an_____y *n.* the scientific study that deals with the physical structure of humans, animals, or plants
25. sales rep_____ion *n.* the act of speaking, acting, or being present on behalf of someone officially; a statement of facts and reasons made in appealing or protesting
26. mo___n poetry *adj.* of or belonging to the present time or recent times
27. fu_____on 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: 18. circuit, 19. evolve, 20. serotonin, 21. yield, 22. microscope, 23. optic, 24. anatomy, 25. representation, 26. modern, 27. function

37. small mo____les *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
38. sl__e a tomato thin *n.* a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting
39. corn yi__d *n.* the total output of crops, profits, etc. that are produced; (verb) to produce or supply helpful something, such as a profit, an amount of food, or information
40. get ne____s *adj.* worried and anxious about something; relating to the nerves
41. spineless je____sh *n.* a marine creature with a soft, jelly-like body and tentacles for stinging
42. id____fy handwriting *v.* to recognize someone or something and say or prove who or what they are
43. gen____ly manipulated plant *adv.* in a way that relates to or is produced by genes (= the units in the cells of a living thing received by an animal or plant from its parents) or heredity
44. spare co____nts for cars *n.* one of several parts that combines with others to form something bigger
45. ev___e *v.* to develop gradually, or to cause the development of something or someone gradually
46. industry-sp____ic regulations *adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
47. flu____nt material *adj.* emitting or reflecting vibrant and vivid light, especially under ultraviolet light; describing a type of lamp or bulb that produces such light

ANSWERS: 37. molecule, 38. slice, 39. yield, 40. nervous, 41. jellyfish, 42. identify, 43. genetically, 44. component, 45. evolve, 46. specific, 47. fluorescent

48. the average life s__n *n.* the entire length of something, such as time or space from beginning to end; the amount of space that something covers
49. st_____re and function of the brain *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
50. la___h a big attack *v.* to send or propel something into the air or space using a device such as a rocket, missile, or spacecraft; to make something available or on sale for the first time
51. the house was sub_____lly built *adv.* to a great extent or degree
52. basic br__n function *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
53. loss of muscle ti___e *n.* an ensemble of similar cells of the animal or plant that together carry out a specific function
54. op__c fiber *adj.* relating to vision or the eyes; relating to or involving light or optics
55. 3D di_____m *n.* a simplified illustration of the appearance, structure, or workings of something
56. sc_____h my signature *v.* to cut or damage the surface of something or the skin with a sharp or pointed object
57. vi_____ze data *v.* to form a mental image or concept of something; to make something visible

ANSWERS: 48. span, 49. structure, 50. launch, 51. substantially, 52. brain, 53. tissue, 54. optic, 55. diagram, 56. scratch, 57. visualize

58. va____t types of pigeon *n.* something that is slightly different from others of the same type
59. 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
60. the root problem of her dep____on *n.* a mental condition in which a person feels very unhappy and without hope for the future; a severe recession in an economy or market
61. st____y increase *adj.* firmly fixed, supported, or balanced; not shaking or moving
62. loyal he____an *n.* a loyal follower or assistant, often used to describe someone willing to do the dirty or illegal work for a leader or criminal
63. the cell of the im____e system *adj.* protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells
64. ind____al freedom *n.* a single person or thing, as distinct from a group
65. an____dy against bacteria *n.* a substance produced in the blood that attacks and kills harmful bacteria, viruses, etc., to fight disease
66. vi____e stars *adj.* capable of being seen; or open to easy view
67. a private ind____al *n.* a single person or thing, as distinct from a group

ANSWERS: 58. variant, 59. neuron, 60. depression, 61. steady, 62. henchman, 63. immune, 64. individual, 65. antibody, 66. visible, 67. individual

68. de___t a bad event *v.* to find or recognize something, especially something difficult to see, hear, etc.
69. sc_____h off a name *v.* to cut or damage the surface of something or the skin with a sharp or pointed object
70. low-r_v engine *n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); *(verb)* to increase the number of rotations per minute
71. mic_____pe slide *n.* an instrument used to see objects or substances that are too small to be seen with the naked eye
72. sk__l fracture *n.* a bone framework that surrounds the brain and gives the head its shape
73. a com_____ed process *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
74. ind_____lly designed product *adv.* separately or apart from others
75. re_____ze achievement *v.* to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered
76. the st_____re of a machine *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
77. g__w gold in the light *v.* to give out a steady, strong light

ANSWERS: 68. detect, 69. scratch, 70. rev, 71. microscope, 72. skull, 73. complicated, 74. individually, 75. recognize, 76. structure, 77. glow

78. art cr___c *n.* someone who expresses opinions about the quality of books, music, etc.
79. severe cr___c *n.* someone who expresses opinions about the quality of books, music, etc.
80. gen_____ly inherited traits *adv.* in a way that relates to or is produced by genes (= the units in the cells of a living thing received by an animal or plant from its parents) or heredity
81. se_____in levels *n.* a neurotransmitter (= a chemical that carries nerve impulses) involved in, e.g., sleep, emotion, and memory
82. in___e his privacy *v.* to enter aggressively into another's territory by military force for conquest and occupation
83. de___t smuggling across borders *v.* to find or recognize something, especially something difficult to see, hear, etc.
84. adopt a re_____d attitude *adj.* made pure by having impurities or unwanted elements removed by processing
85. mo_____ar biology *adj.* of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds)
86. pr_____n synthesis *n.* a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues
87. numeric ke_____rd *n.* device consisting of a set of keys on a piano, typewriter, computer, etc., that you press to make it work

ANSWERS: 78. critic, 79. critic, 80. genetically, 81. serotonin, 82. invade, 83. detect, 84. refined, 85. molecular, 86. protein, 87. keyboard

88. rea_____de curtains *adj.* (of a product) already made or prepared; (of an idea or solution) preconceived or complete and requiring no further development or work
89. re_____ze talent *v.* to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered
90. pa_____e art *n.* a thin board or tablet used by artists to mix and apply paint; a range of colors or shades used in a particular work of art
91. ke_____rd instruments *n.* device consisting of a set of keys on a piano, typewriter, computer, etc., that you press to make it work
92. mesmerizing lum_____nt effect *adj.* emitting light or glowing softly, often without heat; having the ability to produce or emit light, especially through chemical reactions or by absorbing and then releasing energy
93. a va_____t of the same word *n.* something that is slightly different from others of the same type
94. a ch_____al compound *adj.* relating to or connected with chemistry;
95. tr_____rt facilities *n.* a system for moving people or products from one location to another using automobiles, roads, and so on
96. in___e other tissues *v.* to enter aggressively into another's territory by military force for conquest and occupation
97. fe___e attempt *adj.* lacking physical or mental strength; weak or frail; lacking force, effectiveness, or impact

ANSWERS: 88. ready-made, 89. recognize, 90. palette, 91. keyboard, 92. luminescent, 93. variant, 94. chemical, 95. transport, 96. invade, 97. feeble

98. a theoretical concept in neu_____nce
n. the scientific study of the function, structure, and disorder of the brain and the nervous system
99. a sl__e of the company's revenue
n. a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting
100. r_v up the crowd
n. a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
101. access to public tr_____rt
n. a system for moving people or products from one location to another using automobiles, roads, and so on
102. je_____sh sting
n. a marine creature with a soft, jelly-like body and tentacles for stinging
103. heavy ma_____ry
n. a group of large machines or the components of a machine that make it work; social institution functions or structure for doing something
104. in_____e a lot of paperwork
v. to include or affect someone or something as a necessary part of something else
105. pre-mo___n agricultural society
adj. of or belonging to the present time or recent times
106. answer questions ind_____lly
adv. separately or apart from others
107. vi_____ze flying through space
v. to form a mental image or concept of something; to make something visible
108. the price went up sub_____lly
adv. to a great extent or degree

ANSWERS: 98. neuroscience, 99. slice, 100. rev, 101. transport, 102. jellyfish, 103. machinery, 104. involve, 105. modern, 106. individually, 107. visualize, 108. substantially

109. la___h a spaceship into orbit *v.* to send or propel something into the air or space using a device such as a rocket, missile, or spacecraft; to make something available or on sale for the first time
110. become increasingly com_____ed *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
111. su_____ly attacked by an enemy *adv.* quickly and unexpectedly
112. mo_____le behavior *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
113. red wine st__n *v.* to discolor, defile, or tarnish something; (noun) a discoloration or dirty mark on a surface that is difficult to remove
114. fe___e excuse *adj.* lacking physical or mental strength; weak or frail; lacking force, effectiveness, or impact
115. binary rep_____ion *n.* the act of speaking, acting, or being present on behalf of someone officially; a statement of facts and reasons made in appealing or protesting
116. a strain of vi__s *n.* a tiny infectious organic material that causes disease in people, animals, and plants
117. diagnosis of an_____y disorder *n.* a feeling of worry, nervousness, or unease about something that is happening or might happen in the future
118. a boss-and-he_____an relationship *n.* a loyal follower or assistant, often used to describe someone willing to do the dirty or illegal work for a leader or criminal

ANSWERS: 109. launch, 110. complicated, 111. suddenly, 112. molecule, 113. stain, 114. feeble, 115. representation, 116. virus, 117. anxiety, 118. henchman

119. legal co____t *n.* the circumstances, facts, or conditions that surround a particular event, situation, or statement and that give it meaning
120. vi____e by X-ray *adj.* capable of being seen; or open to easy view
121. a cr__k in a board *v.* to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking
122. key co_____nt *n.* one of several parts that combines with others to form something bigger
123. in_____ne between quarreling parties *v.* to intentionally get involved in a situation to improve it or prevent it from getting worse
124. pa____e knife *n.* a thin board or tablet used by artists to mix and apply paint; a range of colors or shades used in a particular work of art
125. ci____t breaker *n.* (in electrical engineering) an electrical device that provides a path for electrical current to flow; a journey or route around a particular place or area
126. a mailing la__l *n.* a small piece of paper, fabric, or other material attached to an object and giving information about it; (verb) to assign to a category
127. sp____ic instructions *adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise

ANSWERS: 119. context, 120. visible, 121. crack, 122. component, 123. intervene, 124. palette, 125. circuit, 126. label, 127. specific

128. di____e control *n.* a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems
129. id____fy gene sequences *v.* to recognize someone or something and say or prove who or what they are
130. at the ge____o *n.* the start or beginning of something
131. vi____l navigation *adj.* relating to seeing or sight
132. behave od____y *adv.* in a way that is unexpected, strange, or peculiar
133. st____n the carpet *v.* to discolor, defile, or tarnish something; (noun) a discoloration or dirty mark on a surface that is difficult to remove
134. od____y familiar *adv.* in a way that is unexpected, strange, or peculiar
135. produce an____dy *n.* a substance produced in the blood that attacks and kills harmful bacteria, viruses, etc., to fight disease
136. flu____nt bulb *adj.* emitting or reflecting vibrant and vivid light, especially under ultraviolet light; describing a type of lamp or bulb that produces such light
137. rea____de templates *adj.* (of a product) already made or prepared; (of an idea or solution) preconceived or complete and requiring no further development or work
138. immune fu____on *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: 128. disease, 129. identify, 130. get-go, 131. visual, 132. oddly, 133.

stain, 134. oddly, 135. antibody, 136. fluorescent, 137. ready-made, 138. function

139. cr__k an eggshell *v.* to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking
140. field of vi___l arts *adj.* relating to seeing or sight
141. passing gl_____e *n.* a brief or partial view; the act of seeing something or someone for a very short time or only partly
142. in a di_____m *n.* a simplified illustration of the appearance, structure, or workings of something
143. en_____er shortage *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
144. g__w a pale orange *v.* to give out a steady, strong light
145. an_____y of a country's collapse *n.* the scientific study that deals with the physical structure of humans, animals, or plants
146. a civil en_____er *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
147. a momentary gl_____e *n.* a brief or partial view; the act of seeing something or someone for a very short time or only partly
148. development of the ne_____s system *adj.* worried and anxious about something; relating to the nerves
149. a lot of re_____d sugar *adj.* made pure by having impurities or unwanted elements removed by processing

ANSWERS: 139. crack, 140. visual, 141. glimpse, 142. diagram, 143. engineer, 144. glow, 145. anatomy, 146. engineer, 147. glimpse, 148. nervous, 149. refined

150. gl____g reviews

adj. highly enthusiastic; greatly praised

151. have a thick sk__l

n. a bone framework that surrounds the brain and gives the head its shape

152. 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

ANSWERS: 150. glowing, 151. skull, 152. neuron

Session 3: Fill in the Blanks

1. The professor explained the _____ of the nervous system.
n. the scientific study that deals with the physical structure of humans, animals, or plants

2. Following international law, our country does not _____ in the internal affairs of our neighbors.
v. to intentionally get involved in a situation to improve it or prevent it from getting worse

3. The invention of the _____ revolutionized the field of electronics.
n. a semiconductor device that can be used to amplify or switch electronic signals and power which is an essential component in modern electronics

4. The brain is an incredibly complex organ that controls the body's _____.
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

5. The medicine works by boosting _____ levels in the brain.
n. a neurotransmitter (= a chemical that carries nerve impulses) involved in, e.g., sleep, emotion, and memory

6. The firm has grown into a large _____ manufacturing.
adj. relating to or connected with chemistry;

7. An infected person in the hospital will likely pass the _____ to others.
n. a tiny infectious organic material that causes disease in people, animals, and plants

ANSWERS: 1. anatomy, 2. intervene, 3. transistor, 4. function, 5. serotonin, 6. chemical, 7. virus

8. Each department has done its product costing _____.
adv. separately or apart from others
9. Archaeologists found a Neanderthal _____ at that historic site.
n. a bone framework that surrounds the brain and gives the head its shape
10. From the _____ it was clear that the project would be a challenge.
n. the start or beginning of something
11. This pharmaceutical company is developing _____ drugs with fewer side effects.
n. a substance produced in the blood that attacks and kills harmful bacteria, viruses, etc., to fight disease
12. The older man's _____ voice suggested he was not feeling well.
adj. lacking physical or mental strength; weak or frail; lacking force, effectiveness, or impact
13. He is drawing a _____ illustrating how the equipment operates.
n. a simplified illustration of the appearance, structure, or workings of something
14. The _____ modified crops were resistant to pests and required less water.
adv. in a way that relates to or is produced by genes (= the units in the cells of a living thing received by an animal or plant from its parents) or heredity
15. Who answers _____ knows little.
adv. quickly and unexpectedly

ANSWERS: 8. individually, 9. skull, 10. get-go, 11. antibody, 12. feeble, 13. diagram, 14. genetically, 15. suddenly

16. The investigation _____ several government agencies and is expected to take several months.
- v.* to include or affect someone or something as a necessary part of something else
17. The researchers try to discover a common _____ in all types of successful organizations.
- n.* one of several parts that combines with others to form something bigger
18. The _____ on the food package lists the ingredients and nutritional information.
- n.* a small piece of paper, fabric, or other material attached to an object and giving information about it; (verb) to assign to a category
19. The organizational _____ of start-ups is often flat and straightforward.
- n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
20. He that would eat the kernel must _____ the nut.
- v.* to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking
21. He walked into the party with an _____ dressed companion, causing everyone to stare.
- adv.* in a way that is unexpected, strange, or peculiar
22. My home is easily _____ from the shore.
- adj.* capable of being seen; or open to easy view
23. The building makes a remarkable _____ impact.
- adj.* relating to seeing or sight

ANSWERS: 16. involves, 17. component, 18. label, 19. structure, 20. crack, 21. oddly, 22. visible, 23. visual

24. _____ symptoms might include a decrease in appetite and weight loss.
n. a mental condition in which a person feels very unhappy and without hope for the future; a severe recession in an economy or market
25. Our team caught a _____ of the world-class technique in this game.
n. a brief or partial view; the act of seeing something or someone for a very short time or only partly
26. He slightly modified the _____ of training because it was just before a match.
n. the entire length of something, such as time or space from beginning to end; the amount of space that something covers
27. 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
28. I prefer using _____ meals when short on time and don't feel like cooking from scratch.
adj. (of a product) already made or prepared; (of an idea or solution) preconceived or complete and requiring no further development or work
29. He suffers from _____ breakdowns.
adj. worried and anxious about something; relating to the nerves
30. The beach was filled with hundreds of _____ so swimming was not recommended.
n. a marine creature with a soft, jelly-like body and tentacles for stinging
31. The sun was setting, and the sky _____ with beautiful colors.
v. to give out a steady, strong light

ANSWERS: 24. Depression, 25. glimpse, 26. span, 27. neuron, 28. ready-made, 29. nervous, 30. jellyfish, 31. glowed

32. He did _____ pen-and-ink drawings in just a few days.
adj. involving a lot of different things or parts in a way that is difficult to understand or analyze
33. The proportion of female engineers has _____ increased.
adv. to a great extent or degree
34. The shape of the DNA _____ is a double helix.
n. a group of two or more atoms held together by attractive forces known as chemical bonds
35. The researcher separated the nervous _____ for microscopic examinations.
n. an ensemble of similar cells of the animal or plant that together carry out a specific function
36. The company is set to _____ its new product line next month.
v. to send or propel something into the air or space using a device such as a rocket, missile, or spacecraft; to make something available or on sale for the first time
37. The allegations of corruption _____ her reputation, and she struggled to regain public trust.
v. to discolor, defile, or tarnish something; (noun) a discoloration or dirty mark on a surface that is difficult to remove
38. She waited for her daughter with _____.
n. a feeling of worry, nervousness, or unease about something that is happening or might happen in the future
39. The _____ will repair my telephone tomorrow morning.
n. a person whose job is designing, building, or maintaining something such as machines, structures, or software

ANSWERS: 32. complicated, 33. substantially, 34. molecule, 35. tissue, 36. launch, 37. stained, 38. anxiety, 39. engineer

40. The first _____ of the virus appeared in less than a month.
n. something that is slightly different from others of the same type
41. Advocates for legal reform hear less harsh words from their _____.
n. someone who expresses opinions about the quality of books, music, etc.
42. The _____ stars illuminated the night sky.
adj. emitting light or glowing softly, often without heat; having the ability to produce or emit light, especially through chemical reactions or by absorbing and then releasing energy
43. A person who has been declared incompetent should have legal _____.
n. the act of speaking, acting, or being present on behalf of someone officially; a statement of facts and reasons made in appealing or protesting
44. She was highly _____ in her choice of apparel.
adj. made pure by having impurities or unwanted elements removed by processing
45. We must _____ a new system to streamline our workflow and increase efficiency.
v. to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
46. The patient's vital signs are _____ indicating a stable condition.
adj. firmly fixed, supported, or balanced; not shaking or moving
47. Their headquarters are in a _____ skyscraper.
adj. of or belonging to the present time or recent times

ANSWERS: 40. variant, 41. critics, 42. luminescent, 43. representation, 44. refined, 45. develop, 46. steady, 47. modern

48. The body needs a certain amount of _____ to build and repair tissues.
n. a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues
49. The _____ of audit formally issued a business improvement order.
n. a group of large machines or the components of a machine that make it work; social institution functions or structure for doing something
50. The vaccination does not necessarily make you completely _____.
adj. protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells
51. The western sky was _____ pink.
adj. highly enthusiastic; greatly praised
52. I used an optical _____ to observe the small organisms in the water sample.
n. an instrument used to see objects or substances that are too small to be seen with the naked eye
53. 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
54. The children complained because one _____ of cake was slightly larger than the other.
n. a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting
55. As an _____ he had the right to make his own decisions and live his life as he saw fit.
n. a single person or thing, as distinct from a group

ANSWERS: 48. protein, 49. machinery, 50. immune, 51. glowing, 52. microscope, 53. brain, 54. slice, 55. individual,

56. I will introduce you to how to _____ the leading causes of the malfunction.
- v.* to recognize someone or something and say or prove who or what they are
57. An intelligent battery has a voltage monitoring _____.
- n.* (in electrical engineering) an electrical device that provides a path for electrical current to flow; a journey or route around a particular place or area
58. The company's stock gives a high _____.
- n.* the total output of crops, profits, etc. that are produced; (verb) to produce or supply helpful something, such as a profit, an amount of food, or information
59. The scientist conducted a study that provided _____ details about the species' behavior.
- adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
60. She tried to _____ the layout of the new house in her mind.
- v.* to form a mental image or concept of something; to make something visible
61. The campaign ad was designed with bright colors and bold fonts for maximum _____ impact.
- adj.* relating to vision or the eyes; relating to or involving light or optics
62. 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
63. I have no intention to _____ your privacy.
- v.* to enter aggressively into another's territory by military force for conquest and occupation

ANSWERS: 56. identify, 57. circuit, 58. yield, 59. specific, 60. visualize, 61. optic, 62. neuroscience, 63. invade

64. It's important to _____ your strengths and weaknesses.
- v.* to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered
65. The doctor diagnosed him with a rare _____ that had no known cure.
- n.* a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems
66. The criminal's _____ carried out his dirty work.
- n.* a loyal follower or assistant, often used to describe someone willing to do the dirty or illegal work for a leader or criminal
67. _____ weight is the sum of all the atoms.
- adj.* of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds)
68. The office installed new _____ lighting to save energy.
- adj.* emitting or reflecting vibrant and vivid light, especially under ultraviolet light; describing a type of lamp or bulb that produces such light
69. It's important to understand the _____ of a situation before making a decision.
- n.* the circumstances, facts, or conditions that surround a particular event, situation, or statement and that give it meaning
70. Enhanced rail _____ is crucial for our business.
- n.* a system for moving people or products from one location to another using automobiles, roads, and so on
71. Don't _____ your mosquito bites.
- v.* to cut or damage the surface of something or the skin with a sharp or pointed object

ANSWERS: 64. recognize, 65. disease, 66. henchman, 67. Molecular, 68. fluorescent, 69. context, 70. transportation, 71. scratch

72. The security camera has _____ four intruders.

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

73. Eyeless fish _____ in dark caves.

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

74. The artist selected colors from her _____ to paint a beautiful landscape.

- n.* a thin board or tablet used by artists to mix and apply paint; a range of colors or shades used in a particular work of art

75. Please strike the "enter" on the _____.

- n.* device consisting of a set of keys on a piano, typewriter, computer, etc., that you press to make it work

76. He stepped on the gas pedal, and the engine released a loud ____.

- n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute

ANSWERS: 72. detected, 73. evolved, 74. palette, 75. keyboard, 76. rev