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Vocabulary Builder Reference from...

Edmond Hui: How the heart actually pumps blood | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

confuse

v. to mistake one thing for another; to make somebody hard to understand

synonym: confound, obscure, disorient

(1) **confuse** the listener, (2) **confuse** fantasy with reality
Her remarks **confused** the debate.

thump

v. to strike or hit heavily or repeatedly, often with a dull, resonating sound; to pound or beat forcefully

synonym: beat, thud, pound

(1) **thump** on the back, (2) **thump** a blistering shot
I heard someone **thump** on the door, and when I opened it, no one was there.

achieve

v. to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do

synonym: accomplish, attain, reach

(1) **achieve** success, (2) **achieve** milestones
I will work hard to **achieve** my goals and realize my dreams.

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.

obvious

adj. easy to see, discover or understand

synonym : apparent, conspicuous, evident

(1) **obvious** reasons, (2) his conclusion was **obvious**

There are **obvious** differences between the two wine-producing regions.

exposed

adj. having no protection or shield from something, such as bad weather, attack, or criticism

synonym : endangered, revealed, disclosed

(1) **exposed** to radiation, (2) an **exposed** rock

Tech companies often employ **exposed** ducts and other materials in their office interiors.

vessel

n. a ship or large boat

synonym : boat, ship, craft

(1) blood **vessels**, (2) naval **vessels**

The **vessel** arrived in port the following day.

opaque

adj. not transparent; not allowing light to pass through; not permitting a clear view

synonym : impenetrable, obscure, cloudy

(1) **opaque** material, (2) **opaque** color

The curtains were made of **opaque** fabric that blocked out all light.

valve

n. a device for controlling the flow of a fluid or gas through a pipe or duct by means of a movable part that opens, closes, or restricts the opening

synonym : tap, spigot, faucet

(1) electromagnetic **valve**, (2) **valve** control

The **valve** on the pipeline was leaking, so maintenance had to shut it off to make repairs.

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.

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**.

crude

adj. being in an unrefined or natural state; (noun) the unprocessed form of oil

synonym: unrefined, native, vulgar

(1) price of **crude** oil, (2) **crude** manners

His **crude** jokes made her angry.

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.

animation

n. the technique of photographing successive drawings or positions of puppets or models to create an illusion of movement when the film is shown as a sequence; enthusiasm and energy in the way you look or behave

synonym : motion, movement, liveliness

(1) **animation** studio, (2) **animation** film

The **animation** of the characters in the movie was so realistic, and it was as if they were there.

conspiracy

n. a secret agreement between two or more people to perform something harmful or illegal

synonym : plot, collaboration, scheme

(1) political **conspiracy**, (2) **conspiracy** theory

There was a **conspiracy** of silence about illegal police interrogation.

demonstrate

v. to display something or give an exhibition to an interested audience

synonym : show, illustrate, display

(1) **demonstrate** a difference, (2) **demonstrate** mastery

How can you **demonstrate** that the earth is a sphere?

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.

grasp

v. to take hold of something or someone quickly and firmly

synonym : grab, clasp, grip

(1) **grasp** his hand, (2) **grasp** a chance

They spent a lot of time trying to **grasp** the current situation.

superficially

adv. in a manner that is concerned only with surface appearances or lacks depth or thoroughness; on the

surface but not in-depth or detail

synonym : externally, on the surface

(1) **superficially** charming, (2) **superficially** knowledgeable

He **superficially** criticized the painting without truly understanding its deeper meaning.

concept

n. an idea or principle associated with something abstract

synonym : idea, notion, vision

(1) learn new **concepts**, (2) **concept** car

One such rapidly growing **concept** is quantum cryptography.

chamber

n. a large room used for a formal, public, or particular purpose; one of the parts of a parliament

synonym : association, cabin, legislature

(1) a gas **chamber**, (2) the lower **chamber**

The surgeon made an incision in the **chambers** of the patient's heart.

mislead

v. to cause someone to believe something that is not true

synonym : misinform, delude, belie

(1) **mislead** him into trusting her, (2) **mislead** the enemy

Our troops pulled back to **mislead** the enemy.

dual

adj. having two parts, aspects, or elements

synonym : twofold, binary, double

(1) **dual** purpose, (2) **dual** nationality

This laptop has a **dual-core** processor, making it fast and efficient.

circulation

n. the movement of blood through the body or of a fluid through a system; the number of copies of a newspaper or magazine that are sold

synonym : flow, movement, dissemination

(1) lymphatic **circulation**, (2) **circulation** of money

The **circulation** of the magazine has been steadily declining.

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.

morphology

n. the study of the form and structure of plants, animals, and other organisms; the study of the alteration of word forms as they change from one part of speech to another

synonym: structure, form, anatomy

(1) **morphology** of a language, (2) cellular **morphology**

The **morphology** of rocks can reveal clues about their geological history.

confusion

n. the state of being mixed up or unclear, or the state of disorder or uncertainty

synonym: disorder, disarray, chaos

(1) administrative **confusion**, (2) in great **confusion**

The sudden policy change has caused **confusion** among employees.

wary

adj. cautious or distrustful, especially because of a previous bad experience

synonym: cautious, suspicious, leery

(1) a **wary** statesman, (2) **wary** of marriage

She was **wary** of meeting new people because of past experiences.

biology

n. the scientific study of life and the natural processes of living things

(1) evolutionary **biology**, (2) cell and molecular **biology**

In junior high school, we had to dissect a frog in **biology** class.

intimidate

v. to make someone fearful or uneasy so that they will do something that you want them to do

synonym: frighten, threaten, terrify

(1) **intimidate** an opponent, (2) effectively **intimidate** a thief
The boss tried to **intimidate** his subordinate with threats.

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.

medicinal

adj. of or relating to the treatment or cure of disease

synonym: curative, therapeutic, healing

(1) **medicinal** chemistry, (2) traditional **medicinal**

The **medicinal** properties of this herb have been known to help with various ailments.

apparent

adj. able to see or understand easily or clearly

synonym: obvious, clear, conspicuous

(1) heir **apparent**, (2) **apparent** contradiction

This star is **apparent** to the naked eye.

medic

n. a person trained to provide medical care, especially in an emergency

synonym: paramedic, medical professional

(1) **medic** unit, (2) military **medic**

The army **medic** arrived on the scene to provide medical assistance.

observe

v. to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion

synonym: watch, monitor, scrutinize

(1) **observe** a tradition, (2) **observe** wildlife

It is important to **observe** safety procedures in the workplace to prevent accidents.

immerse

v. to become fully involved in a particular activity; to dip or submerge in a liquid, especially so that they or it are entirely covered

synonym: dip, inundate, submerge

(1) **immerse** the cloth in the dye, (2) completely **immerse** the ingredient

He **immersed** himself in his research.

squeeze

v. to apply pressure from two or more sides; to hold someone or something tightly in your arms, usually with fondness

synonym: compress, crush, clamp

(1) **squeeze** a lemon, (2) **squeeze** a confession

She **squeezed** the toothpaste tube from the middle to get the last bit out.

mechanism

n. a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction

synonym: means, method, system

(1) the **mechanism** for DNA replication, (2) defense **mechanism**

He discovered unique **mechanisms** for photochemical reactions.

extraordinary

adj. exceptional, unexpected, very unusual; surpassing the ordinary or usual

synonym: exceptional, noteworthy, astonishing

(1) **extraordinary** ability, (2) **extraordinary** weather

He narrated the **extraordinary** story of his adventure.

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.

atrium

n. a central or main hall or open space in a building, typically with a skylight or large window, often serving as a gathering area or focal point; (of anatomy) a chamber or cavity within the heart or inner ear

synonym: lobby, hall, chamber

(1) **atrium** architecture, (2) **atrium** valve

The office building had a beautiful **atrium** in the center, filled with natural light and plants.

trim

v. to make neat or tidy by clipping, cutting, or pruning away excess or unwanted parts; to adjust or modify to improve efficiency or performance

synonym: cut, pare, prune

(1) **trim** a dog's nails, (2) **trim** the budget

I must **trim** the bushes in my front yard before they get too overgrown.

ventricle

n. a chamber or cavity within an organ or structure, particularly the lower chamber of the heart that pumps blood to the lungs and other parts of the body

synonym: chamber, pumping heart muscle

(1) left **ventricle**, (2) **ventricle** in the brain

The heart's **ventricles** are responsible for pumping blood out to the body.

vein

n. a blood vessel that carries blood from various parts of the body back to the heart; a mineral deposit or layer of rock that is contained within another rock formation

synonym: artery, blood vessel, capillary

(1) spider **vein**, (2) collapsed **vein**

The nurse inserted the needle into the **vein** in his arm to draw blood.

attach

v. to fasten, join, or connect one thing to another

synonym: fix, fasten, bind

(1) **attach** firmly, (2) **attach** a file to an e-mail

He does not **attach** importance to these rumors.

artery

n. one of the thick tubes in humans and most other animals that takes blood away from the heart to one or more parts of the body such as tissues, lungs, brain, etc.

synonym : blood vessel, channel, roadway

(1) **artery** blockage, (2) risk of coronary **artery** disease
Continuous consumption of fatty foods leads to the hardening of the **artery**.

aorta

n. the main and largest artery (= thick tube that carries blood from the heart to the body) in the human body originating from the heart

(1) abdominal **aorta**, (2) repair of an **aorta**

The patient will undergo bypass surgery of the **aorta** today.

pulmonary

adj. relating to the lungs or the respiratory system

synonym : pneumonic, respiratory, breath

(1) **pulmonary** embolism, (2) **pulmonary** function test

The patient was admitted to the hospital with **pulmonary** hypertension.

column

n. one of the vertical blocks that split content on a page or screen from top to bottom; an upright pillar that often supports an arch, entablature, or other structure or stands alone as a monument

synonym : line, pillar, cue

(1) the spinal **column**, (2) a **column** of water

The newspaper devoted several **columns** to the affair.

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.

spectacular

adj. striking or impressive to look at or in performance or achievement

synonym : breathtaking, impressive, grand

(1) **spectacular** view, (2) achieve **spectacular** growth

The **spectacular** fireworks display was the highlight of the festival.

stream

n. a small, narrow river; a continuous flow of something, such as liquid, gas, people, vehicles, etc.

synonym : flow, current, brook

(1) the **stream** of time, (2) an endless **stream** of cars

Jet **streams** are the common name for air currents that form high in the atmosphere.

inflate

v. to fill something with air or gas so that it becomes bigger and rounder

synonym : blow up, expand, puff up

(1) **inflate** a tire, (2) **inflate** expense reports

She **inflated** the balloons for the party.

squirt

v. to eject or discharge with force in a fast stream or jet; to spray or sprinkle with a liquid or substance

synonym : spray, eject, spurt

(1) **squirt** water, (2) **squirt** oil

She **squirted** the ketchup onto her fries before taking a bite.

tricuspid

n. a heart valve with three cusps or flaps, specifically referring to the valve between the right atrium and the right ventricle in the heart

(1) **tricuspid** blood flow, (2) **tricuspid** atresia

The **tricuspid** valve regulates blood flow between the right atrium and right ventricle.

parachute

n. a device used to slow the motion of people or objects through an atmosphere consisting of a large piece of thin cloth that is attached to them and opens out in the air

(1) **parachute** troops, (2) golden **parachute**

This training includes emergency escape drills with

parachutes.

rhythmic

adj. having a pattern of regular beats or a regular beat; characterized by rhythm

synonym: measured, metrical, cadenced

(1) a **rhythmic** stroking, (2) in a **rhythmic** pace

The **rhythmic** sound of the drums was mesmerizing.

mimic

v. to imitate someone's speech, movement, or behavior, especially to make others laugh

synonym: mirror, imitate, ape

(1) **mimic** a human voice, (2) **mimic** numerous instruments

He is very popular at school because he can **mimic** all the teachers' accents.

efficient

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

synonym: productive, effective, competent

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

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

leak

v. to allow liquid or gas to get in or out from a hole or crack in a pipe or container

synonym: outflow, divulge, disclose

(1) **leak** data, (2) **leak** a classified memo

He **leaked** serious accounting irregularities that only people in the company's executive could know.

seamless

adj. without spaces or breaks between one part and the next

synonym: smooth, continuous, unseamed

(1) enable **seamless** access, (2) **seamless** device connectivity

The service was **seamless**, and the food was quite delicious.

lifetime

n. the duration of someone's life or something's existence;
synonym : lifespan, duration

(1) **lifetime** benefits, (2) **lifetime** ban from the sport
She had lived through two world wars in her **lifetime**.

unfold

v. to open up or spread out something that is folded or rolled up; to reveal or disclose something that was previously hidden or unknown

synonym : open, spread out, expose

(1) **unfold** the story, (2) **unfold** the stroller

The mystery **unfolded** as the detectives gathered more clues.

rhyme

n. a word or phrase that has the same last sound as another word or phrase, often used in poetry and songwriting

synonym : verse, poetry, meter

(1) **rhyme** poem, (2) write in **rhyme**

The poem had a consistent **rhyme** scheme throughout.

resonance

n. a deep, full, or reverberating sound or tone; a quality or feeling of a particular emotional or mental vibration or significance; a mutual or sympathetic connection or correspondence between two things

synonym : echo, vibration, reverberation

(1) **resonance** frequency, (2) harmonic **resonance**

The singer's voice filled the auditorium with beautiful **resonance**.

caffeine

n. a stimulant drug that is found in coffee, tea, and other beverages and that is used to increase alertness and improve mental and physical performance

synonym : stimulant

(1) **caffeine** intake, (2) coffee with the **caffeine** removed

She experienced headaches and fatigue as symptoms of **caffeine** withdrawal after quitting coffee.

Session 2: Spelling

1. heir ap____nt *adj.* able to see or understand easily or clearly
2. cr__e manners *adj.* being in an unrefined or natural state; (noun) the unprocessed form of oil
3. l__g capacity *n.* either of the two organs in the chest that people and some animals use for breathing
4. ac_____e milestones *v.* to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do
5. cir_____on of money *n.* the movement of blood through the body or of a fluid through a system; the number of copies of a newspaper or magazine that are sold
6. 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.
7. golden pa_____te *n.* a device used to slow the motion of people or objects through an atmosphere consisting of a large piece of thin cloth that is attached to them and opens out in the air
8. con_____cy theory *n.* a secret agreement between two or more people to perform something harmful or illegal

ANSWERS: 1. apparent, 2. crude, 3. lung, 4. achieve, 5. circulation, 6. tap, 7. parachute, 8. conspiracy

9. ar___y blockage *n.* one of the thick tubes in humans and most other animals that takes blood away from the heart to one or more parts of the body such as tissues, lungs, brain, etc.
10. d__l purpose *adj.* having two parts, aspects, or elements
11. gr__p a chance *v.* to take hold of something or someone quickly and firmly
12. co_____e fantasy with reality *v.* to mistake one thing for another; to make somebody hard to understand
13. ap_____nt contradiction *adj.* able to see or understand easily or clearly
14. a rh_____ic stroking *adj.* having a pattern of regular beats or a regular beat; characterized by rhythm
15. pu_____ry function test *adj.* relating to the lungs or the respiratory system
16. achieve spe_____ar growth *adj.* striking or impressive to look at or in performance or achievement
17. li_____me benefits *n.* the duration of someone's life or something's existence;
18. id_____fy handwriting *v.* to recognize someone or something and say or prove who or what they are
19. a gas ch_____r *n.* a large room used for a formal, public, or particular purpose; one of the parts of a parliament
20. at___h a file to an e-mail *v.* to fasten, join, or connect one thing to another
21. tr_____id blood flow *n.* a heart valve with three cusps or flaps, specifically referring to the valve between the right atrium and the right ventricle in the heart

ANSWERS: 9. artery, 10. dual, 11. grasp, 12. confuse, 13. apparent, 14. rhythmic, 15. pulmonary, 16. spectacular, 17. lifetime, 18. identify, 19. chamber, 20. attach, 21. tricuspid

22. me_____al chemistry *adj.* of or relating to the treatment or cure of disease
23. sup_____lly charming *adv.* in a manner that is concerned only with surface appearances or lacks depth or thoroughness; on the surface but not in-depth or detail
24. cell and molecular bi_____y *n.* the scientific study of life and the natural processes of living things
25. mi_____d the enemy *v.* to cause someone to believe something that is not true
26. se_____ss device connectivity *adj.* without spaces or breaks between one part and the next
27. completely im_____e the ingredient *v.* to become fully involved in a particular activity; to dip or submerge in a liquid, especially so that they or it are entirely covered
28. defense me_____sm *n.* a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction
29. co_____t car *n.* an idea or principle associated with something abstract
30. l__k data *v.* to allow liquid or gas to get in or out from a hole or crack in a pipe or container
31. int_____te an opponent *v.* to make someone fearful or uneasy so that they will do something that you want them to do
32. un____d the story *v.* to open up or spread out something that is folded or rolled up; to reveal or disclose something that was previously hidden or unknown

ANSWERS: 22. medicinal, 23. superficially, 24. biology, 25. mislead, 26. seamless, 27. immerse, 28. mechanism, 29. concept, 30. leak, 31. intimidate, 32. unfold

33. enable se_____ss access *adj.* without spaces or breaks between one part and the next
34. at___m architecture *n.* a central or main hall or open space in a building, typically with a skylight or large window, often serving as a gathering area or focal point; (of anatomy) a chamber or cavity within the heart or inner ear
35. 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
36. the lower ch_____r *n.* a large room used for a formal, public, or particular purpose; one of the parts of a parliament
37. military me__c *n.* a person trained to provide medical care, especially in an emergency
38. naval ve___ls *n.* a ship or large boat
39. mi__c a human voice *v.* to imitate someone's speech, movement, or behavior, especially to make others laugh
40. gr__p his hand *v.* to take hold of something or someone quickly and firmly
41. sup_____lly knowledgeable *adv.* in a manner that is concerned only with surface appearances or lacks depth or thoroughness; on the surface but not in-depth or detail

ANSWERS: 33. seamless, 34. atrium, 35. function, 36. chamber, 37. medic, 38. vessel, 39. mimic, 40. grasp, 41. superficially

42. ob____e wildlife *v.* to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion
43. dem____te a difference *v.* to display something or give an exhibition to an interested audience
44. sq____t oil *v.* to eject or discharge with force in a fast stream or jet; to spray or sprinkle with a liquid or substance
45. ob____e a tradition *v.* to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion
46. 3D di____m *n.* a simplified illustration of the appearance, structure, or workings of something
47. op____e color *adj.* not transparent; not allowing light to pass through; not permitting a clear view
48. an____on film *n.* the technique of photographing successive drawings or positions of puppets or models to create an illusion of movement when the film is shown as a sequence; enthusiasm and energy in the way you look or behave
49. ef____nt operation *adj.* performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials

ANSWERS: 42. observe, 43. demonstrate, 44. squirt, 45. observe, 46. diagram, 47. opaque, 48. animation, 49. efficient

50. th__p on the back *v.* to strike or hit heavily or repeatedly, often with a dull, resonating sound; to pound or beat forcefully
51. abdominal ao__a *n.* the main and largest artery (= thick tube that carries blood from the heart to the body) in the human body originating from the heart
52. write in rh__e *n.* a word or phrase that has the same last sound as another word or phrase, often used in poetry and songwriting
53. 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
54. ext_____ary ability *adj.* exceptional, unexpected, very unusual; surpassing the ordinary or usual
55. sq_____e a confession *v.* to apply pressure from two or more sides; to hold someone or something tightly in your arms, usually with fondness
56. left ve_____le *n.* a chamber or cavity within an organ or structure, particularly the lower chamber of the heart that pumps blood to the lungs and other parts of the body
57. dem_____te mastery *v.* to display something or give an exhibition to an interested audience
58. 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

ANSWERS: 50. thump, 51. aorta, 52. rhyme, 53. pump, 54. extraordinary, 55. squeeze, 56. ventricle, 57. demonstrate, 58. pump

59. 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
60. t__m the budget *v.* to make neat or tidy by clipping, cutting, or pruning away excess or unwanted parts; to adjust or modify to improve efficiency or performance
61. political con_____cy *n.* a secret agreement between two or more people to perform something harmful or illegal
62. va__e control *n.* a device for controlling the flow of a fluid or gas through a pipe or duct by means of a movable part that opens, closes, or restricts the opening
63. in_____e a tire *v.* to fill something with air or gas so that it becomes bigger and rounder
64. ex_____d to radiation *adj.* having no protection or shield from something, such as bad weather, attack, or criticism
65. price of cr__e oil *adj.* being in an unrefined or natural state; (noun) the unprocessed form of oil
66. 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
67. do l__g transplantation *n.* either of the two organs in the chest that people and some animals use for breathing

ANSWERS: 59. surgery, 60. trim, 61. conspiracy, 62. valve, 63. inflate, 64. exposed, 65. crude, 66. label, 67. lung

68. pa_____te troops *n.* a device used to slow the motion of people or objects through an atmosphere consisting of a large piece of thin cloth that is attached to them and opens out in the air
69. learn new co_____ts *n.* an idea or principle associated with something abstract
70. a w__y statesman *adj.* cautious or distrustful, especially because of a previous bad experience
71. ob_____s reasons *adj.* easy to see, discover or understand
72. harmonic re_____ce *n.* a deep, full, or reverberating sound or tone; a quality or feeling of a particular emotional or mental vibration or significance; a mutual or sympathetic connection or correspondence between two things
73. 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
74. 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.
75. in a di_____m *n.* a simplified illustration of the appearance, structure, or workings of something
76. t__m a dog's nails *v.* to make neat or tidy by clipping, cutting, or pruning away excess or unwanted parts; to adjust or modify to improve efficiency or performance

ANSWERS: 68. parachute, 69. concept, 70. wary, 71. obvious, 72. resonance, 73. label, 74. tap, 75. diagram, 76. trim

77. rh__e poem *n.* a word or phrase that has the same last sound as another word or phrase, often used in poetry and songwriting
78. in____e expense reports *v.* to fill something with air or gas so that it becomes bigger and rounder
79. collapsed v__n *n.* a blood vessel that carries blood from various parts of the body back to the heart; a mineral deposit or layer of rock that is contained within another rock formation
80. the me_____sm for DNA replication *n.* a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction
81. administrative co_____on *n.* the state of being mixed up or unclear, or the state of disorder or uncertainty
82. im_____e the cloth in the dye *v.* to become fully involved in a particular activity; to dip or submerge in a liquid, especially so that they or it are entirely covered
83. ve_____le in the brain *n.* a chamber or cavity within an organ or structure, particularly the lower chamber of the heart that pumps blood to the lungs and other parts of the body
84. ext_____ary weather *adj.* exceptional, unexpected, very unusual; surpassing the ordinary or usual
85. effectively int_____te a thief *v.* to make someone fearful or uneasy so that they will do something that you want them to do

ANSWERS: 77. rhyme, 78. inflate, 79. vein, 80. mechanism, 81. confusion, 82. immerse, 83. ventricle, 84. extraordinary, 85. intimidate

86. op___e material *adj.* not transparent; not allowing light to pass through; not permitting a clear view
87. l__k a classified memo *v.* to allow liquid or gas to get in or out from a hole or crack in a pipe or container
88. in a rh____ic pace *adj.* having a pattern of regular beats or a regular beat; characterized by rhythm
89. th__p a blistering shot *v.* to strike or hit heavily or repeatedly, often with a dull, resonating sound; to pound or beat forcefully
90. un___d the stroller *v.* to open up or spread out something that is folded or rolled up; to reveal or disclose something that was previously hidden or unknown
91. id____fy gene sequences *v.* to recognize someone or something and say or prove who or what they are
92. 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
93. blood ve___ls *n.* a ship or large boat
94. evolutionary bi____y *n.* the scientific study of life and the natural processes of living things
95. repair of an ao__a *n.* the main and largest artery (= thick tube that carries blood from the heart to the body) in the human body originating from the heart

ANSWERS: 86. opaque, 87. leak, 88. rhythmic, 89. thump, 90. unfold, 91. identify, 92. surgery, 93. vessel, 94. biology, 95. aorta

96. cellular mor_____gy *n.* the study of the form and structure of plants, animals, and other organisms; the study of the alteration of word forms as they change from one part of speech to another
97. become increasingly com_____ed *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
98. the spinal co___n *n.* one of the vertical blocks that split content on a page or screen from top to bottom; an upright pillar that often supports an arch, entablature, or other structure or stands alone as a monument
99. mi_____d him into trusting her *v.* to cause someone to believe something that is not true
100. his conclusion was ob_____s *adj.* easy to see, discover or understand
101. an ex_____d rock *adj.* having no protection or shield from something, such as bad weather, attack, or criticism
102. sq_____e a lemon *v.* to apply pressure from two or more sides; to hold someone or something tightly in your arms, usually with fondness
103. the st___m of time *n.* a small, narrow river; a continuous flow of something, such as liquid, gas, people, vehicles, etc.
104. spider v__n *n.* a blood vessel that carries blood from various parts of the body back to the heart; a mineral deposit or layer of rock that is contained within another rock formation

ANSWERS: 96. morphology, 97. complicated, 98. column, 99. mislead, 100. obvious, 101. exposed, 102. squeeze, 103. stream, 104. vein

105. pu_____ry embolism *adj.* relating to the lungs or the respiratory system
106. 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
107. a com_____ed process *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
108. at___h firmly *v.* to fasten, join, or connect one thing to another
109. li_____me ban from the sport *n.* the duration of someone's life or something's existence;
110. sq___t water *v.* to eject or discharge with force in a fast stream or jet; to spray or sprinkle with a liquid or substance
111. energy-ef_____nt appliances *adj.* performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials
112. lymphatic cir_____on *n.* the movement of blood through the body or of a fluid through a system; the number of copies of a newspaper or magazine that are sold

ANSWERS: 105. pulmonary, 106. function, 107. complicated, 108. attach, 109. lifetime, 110. squirt, 111. efficient, 112. circulation

113. mi__c numerous instruments *v.* to imitate someone's speech, movement, or behavior, especially to make others laugh
114. a co___n of water *n.* one of the vertical blocks that split content on a page or screen from top to bottom; an upright pillar that often supports an arch, entablature, or other structure or stands alone as a monument
115. coffee with the ca_____ne removed *n.* a stimulant drug that is found in coffee, tea, and other beverages and that is used to increase alertness and improve mental and physical performance
116. spe_____ar view *adj.* striking or impressive to look at or in performance or achievement
117. traditional me_____al *adj.* of or relating to the treatment or cure of disease
118. mor_____gy of a language *n.* the study of the form and structure of plants, animals, and other organisms; the study of the alteration of word forms as they change from one part of speech to another
119. co_____e the listener *v.* to mistake one thing for another; to make somebody hard to understand
120. w__y of marriage *adj.* cautious or distrustful, especially because of a previous bad experience
121. risk of coronary ar___y disease *n.* one of the thick tubes in humans and most other animals that takes blood away from the heart to one or more parts of the body such as tissues, lungs, brain, etc.

ANSWERS: 113. mimic, 114. column, 115. caffeine, 116. spectacular, 117. medicinal, 118. morphology, 119. confuse, 120. wary, 121. artery

122. electromagnetic va__e *n.* a device for controlling the flow of a fluid or gas through a pipe or duct by means of a movable part that opens, closes, or restricts the opening
123. in great co_____on *n.* the state of being mixed up or unclear, or the state of disorder or uncertainty
124. re_____ce frequency *n.* a deep, full, or reverberating sound or tone; a quality or feeling of a particular emotional or mental vibration or significance; a mutual or sympathetic connection or correspondence between two things
125. at___m valve *n.* a central or main hall or open space in a building, typically with a skylight or large window, often serving as a gathering area or focal point; (of anatomy) a chamber or cavity within the heart or inner ear
126. d__l nationality *adj.* having two parts, aspects, or elements
127. an endless st___m of cars *n.* a small, narrow river; a continuous flow of something, such as liquid, gas, people, vehicles, etc.
128. ac_____e success *v.* to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do
129. tr_____id atresia *n.* a heart valve with three cusps or flaps, specifically referring to the valve between the right atrium and the right ventricle in the heart

ANSWERS: 122. valve, 123. confusion, 124. resonance, 125. atrium, 126. dual, 127. stream, 128. achieve, 129. tricuspid

130. an_____on studio

n. the technique of photographing successive drawings or positions of puppets or models to create an illusion of movement when the film is shown as a sequence; enthusiasm and energy in the way you look or behave

131. me__c unit

n. a person trained to provide medical care, especially in an emergency

132. ca_____ne intake

n. a stimulant drug that is found in coffee, tea, and other beverages and that is used to increase alertness and improve mental and physical performance

ANSWERS: 130. animation, 131. medic, 132. caffeine

Session 3: Fill in the Blanks

1. 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
2. It is important to _____ safety procedures in the workplace to prevent accidents.
v. to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion
3. The curtains were made of _____ fabric that blocked out all light.
adj. not transparent; not allowing light to pass through; not permitting a clear view
4. In junior high school, we had to dissect a frog in _____ class.
n. the scientific study of life and the natural processes of living things
5. 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
6. One such rapidly growing _____ is quantum cryptography.
n. an idea or principle associated with something abstract
7. The _____ of rocks can reveal clues about their geological history.
n. the study of the form and structure of plants, animals, and other organisms; the study of the alteration of word forms as they change from one part of speech to another

ANSWERS: 1. pump, 2. observe, 3. opaque, 4. biology, 5. complicated, 6. concept, 7. morphology

8. The newspaper devoted several _____ to the affair.
- n.* one of the vertical blocks that split content on a page or screen from top to bottom; an upright pillar that often supports an arch, entablature, or other structure or stands alone as a monument
9. The _____ properties of this herb have been known to help with various ailments.
- adj.* of or relating to the treatment or cure of disease
10. Tech companies often employ _____ ducts and other materials in their office interiors.
- adj.* having no protection or shield from something, such as bad weather, attack, or criticism
11. How can you _____ that the earth is a sphere?
- v.* to display something or give an exhibition to an interested audience
12. He is very popular at school because he can _____ all the teachers' accents.
- v.* to imitate someone's speech, movement, or behavior, especially to make others laugh
13. 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
14. Our troops pulled back to _____ the enemy.
- v.* to cause someone to believe something that is not true
15. The nurse inserted the needle into the _____ in his arm to draw blood.
- n.* a blood vessel that carries blood from various parts of the body back to the heart; a mineral deposit or layer of rock that is contained within another rock formation

ANSWERS: 8. columns, 9. medicinal, 10. exposed, 11. demonstrate, 12. mimic, 13. label, 14. mislead, 15. vein

16. He _____ serious accounting irregularities that only people in the company's executive could know.
- v.* to allow liquid or gas to get in or out from a hole or crack in a pipe or container
17. The new washing machine is much more _____ than the old one.
- adj.* performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials
18. The _____ of the characters in the movie was so realistic, and it was as if they were there.
- n.* the technique of photographing successive drawings or positions of puppets or models to create an illusion of movement when the film is shown as a sequence; enthusiasm and energy in the way you look or behave
19. She experienced headaches and fatigue as symptoms of _____ withdrawal after quitting coffee.
- n.* a stimulant drug that is found in coffee, tea, and other beverages and that is used to increase alertness and improve mental and physical performance
20. He _____ himself in his research.
- v.* to become fully involved in a particular activity; to dip or submerge in a liquid, especially so that they or it are entirely covered
21. She _____ the ketchup onto her fries before taking a bite.
- v.* to eject or discharge with force in a fast stream or jet; to spray or sprinkle with a liquid or substance
22. She had lived through two world wars in her _____.
- n.* the duration of someone's life or something's existence;

ANSWERS: 16. leaked, 17. efficient, 18. animation, 19. caffeine, 20. immersed, 21. squirted, 22. lifetime

23. There was a _____ of silence about Illegal police interrogation.
- n.* a secret agreement between two or more people to perform something harmful or illegal
24. 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.
25. Jet _____ are the common name for air currents that form high in the atmosphere.
- n.* a small, narrow river; a continuous flow of something, such as liquid, gas, people, vehicles, etc.
26. The army _____ arrived on the scene to provide medical assistance.
- n.* a person trained to provide medical care, especially in an emergency
27. This training includes emergency escape drills with _____.
- n.* a device used to slow the motion of people or objects through an atmosphere consisting of a large piece of thin cloth that is attached to them and opens out in the air
28. The _____ sound of the drums was mesmerizing.
- adj.* having a pattern of regular beats or a regular beat; characterized by rhythm
29. 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

ANSWERS: 23. conspiracy, 24. tap, 25. streams, 26. medic, 27. parachutes, 28. rhythmic, 29. function

30. This star is _____ to the naked eye.

adj. able to see or understand easily or clearly

31. The _____ valve regulates blood flow between the right atrium and right ventricle.

n. a heart valve with three cusps or flaps, specifically referring to the valve between the right atrium and the right ventricle in the heart

32. I will work hard to _____ my goals and realize my dreams.

v. to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do

33. He narrated the _____ story of his adventure.

adj. exceptional, unexpected, very unusual; surpassing the ordinary or usual

34. The heart's _____ are responsible for pumping blood out to the body.

n. a chamber or cavity within an organ or structure, particularly the lower chamber of the heart that pumps blood to the lungs and other parts of the body

35. She _____ the balloons for the party.

v. to fill something with air or gas so that it becomes bigger and rounder

36. He does not _____ importance to these rumors.

v. to fasten, join, or connect one thing to another

37. The poem had a consistent _____ scheme throughout.

n. a word or phrase that has the same last sound as another word or phrase, often used in poetry and songwriting

ANSWERS: 30. apparent, 31. tricuspid, 32. achieve, 33. extraordinary, 34. ventricles, 35. inflated, 36. attach, 37. rhyme

38. The singer's voice filled the auditorium with beautiful _____.
- n.* a deep, full, or reverberating sound or tone; a quality or feeling of a particular emotional or mental vibration or significance; a mutual or sympathetic connection or correspondence between two things
39. The _____ of the magazine has been steadily declining.
- n.* the movement of blood through the body or of a fluid through a system; the number of copies of a newspaper or magazine that are sold
40. She was _____ of meeting new people because of past experiences.
- adj.* cautious or distrustful, especially because of a previous bad experience
41. He discovered unique _____ for photochemical reactions.
- n.* a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction
42. Continuous consumption of fatty foods leads to the hardening of the _____.
- n.* one of the thick tubes in humans and most other animals that takes blood away from the heart to one or more parts of the body such as tissues, lungs, brain, etc.
43. There are _____ differences between the two wine-producing regions.
- adj.* easy to see, discover or understand
44. The office building had a beautiful _____ in the center, filled with natural light and plants.
- n.* a central or main hall or open space in a building, typically with a skylight or large window, often serving as a gathering area or focal point; (of anatomy) a chamber or cavity within the heart or inner ear

ANSWERS: 38. resonance, 39. circulation, 40. wary, 41. mechanisms, 42. artery, 43. obvious, 44. atrium

45. 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
46. He is drawing a _____ illustrating how the equipment operates.
n. a simplified illustration of the appearance, structure, or workings of something
47. She _____ the toothpaste tube from the middle to get the last bit out.
v. to apply pressure from two or more sides; to hold someone or something tightly in your arms, usually with fondness
48. He has terminal _____ cancer.
n. either of the two organs in the chest that people and some animals use for breathing
49. The boss tried to _____ his subordinate with threats.
v. to make someone fearful or uneasy so that they will do something that you want them to do
50. The patient will undergo bypass surgery of the _____ today.
n. the main and largest artery (= thick tube that carries blood from the heart to the body) in the human body originating from the heart
51. The _____ arrived in port the following day.
n. a ship or large boat
52. His _____ jokes made her angry.
adj. being in an unrefined or natural state; (noun) the unprocessed form of oil
53. The mystery _____ as the detectives gathered more clues.
v. to open up or spread out something that is folded or rolled up; to reveal or disclose something that was previously hidden or unknown

ANSWERS: 45. identify, 46. diagram, 47. squeezed, 48. lung, 49. intimidate, 50. aorta, 51. vessel, 52. crude, 53. unfolded

54. I must _____ the bushes in my front yard before they get too overgrown.
- v.* to make neat or tidy by clipping, cutting, or pruning away excess or unwanted parts; to adjust or modify to improve efficiency or performance
55. The _____ on the pipeline was leaking, so maintenance had to shut it off to make repairs.
- n.* a device for controlling the flow of a fluid or gas through a pipe or duct by means of a movable part that opens, closes, or restricts the opening
56. They spent a lot of time trying to _____ the current situation.
- v.* to take hold of something or someone quickly and firmly
57. The surgeon made an incision in the _____ of the patient's heart.
- n.* a large room used for a formal, public, or particular purpose; one of the parts of a parliament
58. Her remarks _____ the debate.
- v.* to mistake one thing for another; to make somebody hard to understand
59. 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
60. This laptop has a _____ processor, making it fast and efficient.
- adj.* having two parts, aspects, or elements
61. The _____ fireworks display was the highlight of the festival.
- adj.* striking or impressive to look at or in performance or achievement

ANSWERS: 54. trim, 55. valve, 56. grasp, 57. chambers, 58. confused, 59. surgery, 60. dual-core, 61. spectacular

62. I heard someone _____ on the door, and when I opened it, no one was there.
v. to strike or hit heavily or repeatedly, often with a dull, resonating sound; to pound or beat forcefully
63. The service was _____ and the food was quite delicious.
adj. without spaces or breaks between one part and the next
64. The sudden policy change has caused _____ among employees.
n. the state of being mixed up or unclear, or the state of disorder or uncertainty
65. He _____ criticized the painting without truly understanding its deeper meaning.
adv. in a manner that is concerned only with surface appearances or lacks depth or thoroughness; on the surface but not in-depth or detail
66. The patient was admitted to the hospital with _____ hypertension.
adj. relating to the lungs or the respiratory system

ANSWERS: 62. thump, 63. seamless, 64. confusion, 65. superficially, 66. pulmonary