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Vocabulary Builder Reference from...

Regina Dugan: From mach-20 glider to hummingbird drone | TED Talk

https://www.ted.com/talks/regina_dugan_from_mach_20_glider_to_hummingbird_drone

Advanced Words Only

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Session 1: Word List

nerd

n. a person who is very interested in and knowledgeable about a particular subject such as computers, mathematics, chess, etc.

synonym : geek, techie, wonk

(1) a computer **nerd**, (2) **nerd** neck

He was, by nature, a cyber **nerd**.

defy

v. to challenge or dare someone to do something; to resist or disobey a rule, decision, etc.

synonym : challenge, resist, disobey

(1) **defy** gravity, (2) **defy** authority

She tried to **defy** her parents by moving to the city against their wishes.

constrain

v. to restrict or limit someone or something's freedom or ability to do something

synonym : restrict, limit, confine

(1) **constrain** his freedom, (2) **constrain** information flow

The political situation **constrained** the country's economic growth and foreign relations.

discotheque

n. a nightclub or restaurant where recorded music is played, and people dance

synonym : nightclub, dance club, disco

(1) **discotheque** party, (2) **discotheque** scene

He couldn't wait to hit the **discotheque** and dance the night away.

surpass

v. to be or do better than someone or something; to excel or go beyond the limits or standards of something

synonym : excel, outdo, outperform

(1) **surpass** imagination, (2) **surpass** \$20 billion in sales

The athlete's record-breaking performance **surpassed** all expectations.

Kelvin

n. a unit of measurement for temperature in the International System of Units (SI), which starts at absolute zero, the theoretical lowest limit of temperature, and named after the British physicist William Thomson, also known as Lord Kelvin

synonym : K, degree

(1) **Kelvin** scale, (2) **Kelvin** measurement

The scientist cooled the sample to just a couple of **Kelvin** to observe quantum effects.

aerodynamics

n. the study of the motion of air, particularly its interaction with solid objects moving through it, such as aircraft or cars

synonym : aeromechanics, aeronautics, airflow

(1) **aerodynamics** research, (2) **aerodynamics** design

The **aerodynamics** of the car allowed it to glide smoothly through the air.

wright

n. a person who makes or repairs something, especially a craftsman or artisan who works with wood or metal

synonym : builder, constructor, craftsman

(1) a car- **wright**, (2) aircraft **wright**

She was a skilled **wright**, able to craft intricate pieces of furniture.

creditor

n. a person, company, etc. to whom a debtor owes money
(1) the **creditor's** claims, (2) bankrupt **creditor**
I asked the lawyer to initiate **creditor** negotiations for voluntary liquidation.

transonic

adj. pertaining to speeds approaching and crossing the sound barrier, typically referring to aircraft or objects traveling at or near the speed of sound
synonym : near-sonic
(1) **transonic** flight, (2) **transonic** aircraft
The aircraft reached **transonic** speeds as it broke the sound barrier.

chuck

v. to throw something carelessly or casually; to get rid of something or someone
synonym : toss, throw, discard
(1) **chuck** the ball across the yard, (2) **chuck** my job
I will **chuck** these old shoes in the trash and buy a new pair.

cockpit

n. the area in an aircraft or spacecraft from which the pilot controls the aircraft or spacecraft
synonym : flight deck, control room, bridge
(1) navigator's **cockpit**, (2) **cockpit** ship
The pilot sat in the **cockpit** of the airplane.

aft

adj. (the opposite of "forward") located at or towards the rear or back of a ship, aircraft, or other vehicle
(1) **aft** cabin, (2) **aft** view
The **aft** section of the ship suffered significant damage after the collision with the reef.

supersonic

adj. relating to or having a speed above the speed of sound (roughly 767 miles per hour or 1,235 kilometers per hour at sea level)
synonym : hypersonic, ultrasonic, transonic
(1) **supersonic** aircraft, (2) **supersonic** wind tunnel
The spacecraft reentered the Earth's atmosphere at

supersonic speeds.

molten

adj. in a liquid state as a result of being heated

synonym : melted, liquefied, fused

(1) a **molten** image, (2) **molten** lava

The **molten** metal was poured into the mold.

maneuver

n. a motion or combination of moves that requires skill and care; a clever strategy, activity, or movement intended to give someone an advantage

synonym : gimmick, trick, action

(1) political **maneuvers**, (2) made a great **maneuver**

In this class, we learn the basic **maneuver** of the plane.

atop

adv. on, to, or at the top

synonym : upon, onto

(1) stand **atop**, (2) sit **atop** a stack of books

The eagle perched **atop** the tallest tree in the forest.

Minotaur

n. in Greek mythology, a creature with the head of a bull and the body of a man is depicted as inhabiting a labyrinth on the island of Crete

synonym : bull, labyrinth dweller

(1) defeating the **Minotaur**, (2) labyrinth of the **Minotaur**

The ancient Greek myth tells the tale of the **Minotaur**, a half-man and half-bull creature.

trajectory

n. the curved path followed by an object moving through space

synonym : course, curve, orbit

(1) career **trajectory**, (2) a **trajectory** missile

The company has shown an excellent growth **trajectory** over the years.

unnatural

adj. not in accordance with the normal or natural order or not normal, typical, or expected

synonym : abnormal, bizarre, artificial

(1) **unnatural** death, (2) **unnatural** disaster

The **unnatural** growth of the city has disrupted wildlife habitats.

glider

n. a light aircraft or small, unpowered plane that is designed to glide and soar through the air using natural winds and or thermal currents

synonym : sailplane, soaring bird

(1) **glider** club, (2) paper- **glider**

The hang- **glider** enthusiast looked at the clear skies, anticipating a perfect day to take flight.

conceal

v. to prevent something from being seen, found, observed, or discovered

synonym : hide, keep secret, camouflage

(1) **conceal** my identity, (2) **conceal** a close relationship

Despite the intense verbal abuse, she **concealed** her anger well.

unmanned

adj. not having a human crew or operator, as in unmanned aerial vehicles (UAVs) or unmanned spacecraft

synonym : uncrewed, automated, robotized

(1) an **unmanned** stop, (2) **unmanned** drone

The **unmanned** spacecraft landed on the asteroid.

hummingbird

n. a small bird with a highly specialized beak and wings that allow it to hover in place, known for its rapid wingbeats and ability to fly in any direction

(1) **hummingbird** feeder, (2) **hummingbird** nest

Watching a **hummingbird** at a flower is like observing a miniature ballet of nature.

humming

adj. producing a continuous, low, vibrating sound like that of the bee

synonym : buzzing, droning, vibrating

(1) **humming** sound, (2) **humming** bird

The **humming** of the bees filled the air as she walked through the garden.

drone

n. a low continuous humming noise; someone who takes more time than necessary; a pilot-less aerial vehicle that is operated by remote control

synonym : hum, whirr, idler

(1) **drone** flight, (2) the speaker's **drone**

He heard a **drone** of sirens roar from the neighboring town.

hover

v. to stay in one place in the air

synonym : hang, float over, drift

(1) **hover** between life and death, (2) **hover** around the table

Two birds were **hovering** overhead.

nectar

n. a sweet liquid produced by flowers that attracts and provides food for bees and other insects; any sweet liquid that is enjoyed as a drink or used as a flavoring

synonym : honey, ambrosia, syrup

(1) **nectar** of the gods, (2) fruit **nectar**

The **nectar** of the flowers attracted many bees to the garden.

whopping

adj. extremely large, impressive, or noteworthy; it can also be used to describe a surprise or shock

synonym : enormous, gigantic, massive

(1) **whopping** price, (2) **whopping** success

The new smartphone has a **whopping** 1TB of storage space.

matte

adj. having a surface without a shine, luster; non-glossy

synonym : dull, flat, lusterless

(1) **matte** coating, (2) photo with a **matte** finish

The body of his car has a **matte** finish.

cheetah

n. a large, slender, and fast-running African cat with a yellowish-brown coat and black spots

synonym : leopard, jaguar, panther

(1) **cheetah** sprint, (2) **cheetah** habitat

The mother **cheetahs** fiercely protect their cubs, teaching them valuable hunting and survival skills before they venture out independently.

clumsy

adj. lacking in grace or skill; awkward; cumbersome

synonym: awkward, ungainly, inept

(1) **clumsy** at sports, (2) **clumsy** attempt

The **clumsy** waiter accidentally spilled a tray of drinks on a customer.

gecko

n. a small to medium-sized lizard with soft, velvety skin, short legs, and adhesive pads on the feet that allow them to climb and walk along vertical surfaces

synonym: lizard, salamander, chameleon

(1) **gecko** habitat, (2) house **gecko**

I saw a **gecko** crawling on the wall of my bedroom.

seta

n. (of biology) a stiff, bristle-like appendage or hair-like structure found in certain organisms, such as insects or mosses

synonym: bristle, hair, trichome

(1) hairy **seta**, (2) sensory **seta**

The mushroom's cap was covered in tiny **setae**, giving it a velvety texture.

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.

nanoscale

adj. on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale

(1) **nanoscale** device, (2) things at the **nanoscale**

This process improves the strength of the metal by controlling the **nanoscale** lattice structure of the metal.

mite

n. a tiny arachnid-like creature that is related to ticks and spiders and often lives as a parasite on plants or animals

synonym : speck, insect

(1) house dust **mite**, (2) a **mite** of evidence

The **mite** infestation in the old house was a serious problem for the residents.

truss

v. to support, brace, or strengthen a structure or object with a framework, typically made of wood or metal; to bind or tie something together, usually tightly; (noun) a framework or structure composed of beams, bars, or other elements that are designed to support or strengthen a roof, bridge, or other construction

synonym : support, brace, reinforce

(1) **truss** a chicken, (2) bridge **truss**

The construction workers had to **truss** up the beams to support the weight of the building.

dandelion

n. a common weed with a bright yellow flower and deeply notched leaves that is often seen growing in lawns and other grassy areas; its leaves can be eaten as a salad green, and its roots are sometimes used in herbal medicine

synonym : blowball

(1) **dandelion** root, (2) **dandelion** tea

In the summer, fields are filled with yellow **dandelion** flowers.

wisp

n. a thin, delicate strand or vestige of something, such as smoke, vapor, or a piece of hair; a faint, barely perceptible indication or hint of something; a small creature or fairy, often depicted as a hovering, translucent figure

synonym : strand, thread, filament

(1) a **wisp** of mist, (2) a **wisp** of conversation

The **wisp** of smoke from the candle added to the room's cozy ambiance.

crashworthy

adj. designed to withstand an impact or collision and minimize injury or damage to people or property; able to protect occupants during a crash or collision

synonym : safe, durable, rugged

(1) **crashworthy** design, (2) **crashworthy** aircraft

The military vehicles are built with **crashworthy** structures to protect soldiers in combat situations.

beacon

n. a light or other visible object serving as a signal, guide, or warning

synonym : lighthouse, guidepost, marker

(1) an aerial **beacon**, (2) **beacon** of hope

The lighthouse served as a **beacon** to guide ships safely into port.

prosthetic

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

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

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

retrovirus

n. a type of RNA virus that uses the enzyme reverse transcriptase to convert its RNA into DNA, which then inserts itself into the host cell's genome, which can cause a variety of diseases in humans and animals, including HIV (Human Immunodeficiency Virus)

(1) **retrovirus** infection, (2) feline **retrovirus**

The patient's condition improved after beginning a **retrovirus-targeted** treatment regimen.

protease

n. an enzyme that breaks down proteins by hydrolyzing the peptide bonds between amino acids, playing a crucial role in digestion and many other physiological processes

synonym : enzyme, peptidase

(1) digestive **protease**, (2) pancreatic **protease**

Protease enzymes play a crucial role in breaking down proteins in the digestive system.

rhesus

n. a type of macaque monkey (any of the various short-tailed monkeys found in Asia and Africa) often used in scientific research

synonym : macaca mulatta, macaque

(1) **Rhesus** macaque, (2) **rhesus** experiment

Rhesus monkeys are known for their intelligence and adaptability in captivity.

unsolved

adj. not yet understood, explained, or resolved; remaining a mystery or enigma

synonym : unresolved, mysterious, perplexing

(1) **unsolved** mystery, (2) **unsolved** crime

The case remains **unsolved** after years of investigation.

amplify

v. to enhance something, particularly sound or brightness

synonym : intensify, boost, argument

(1) **amplify** a signal, (2) **amplify** the effect

You might need to **amplify** this point.

astronaut

n. a person trained by a space agency to travel outside the Earth's atmosphere

synonym : spaceman, cosmonaut

(1) **astronaut** mission, (2) **astronaut** in training

The shuttle **astronaut** trained for months before embarking on the space mission.

adventurer

n. a person who enjoys or seeks dangerous and exciting experiences

synonym : explorer, entrepreneur, daredevil

(1) daredevil **adventurer**, (2) outdoor **adventurers**

The ocean **adventurer** holds the record for the oldest solo Pacific Ocean crossing by a sailboat.

fearless

adj. having no fear; brave

synonym : brave, courageous, daring

(1) **fearless** attitude, (2) **fearless** bravery

The **fearless** firefighter rushed into the burning building to save a trapped child.

superhero

n. a fictional hero who possesses extraordinary powers and abilities and is dedicated to protecting the public

(1) **superhero** movies, (2) **superhero** comics

Superman is a classic **superhero** known for his superhuman strength and flying ability.

creep

v. to move slowly, quietly, and carefully, usually to avoid being seen or heard

synonym : crawl, glide, encroach

(1) **creep** along the leaf, (2) **creep** toward the mouse

Aging **creeps** up slowly with time.

reconnect

v. to connect again after a break or interruption

synonym : reopen, rejoin, link up

(1) **reconnect** a telephone, (2) **reconnect** with family

After a long period of estrangement, they **reconnected** with each other.

cape

n. a type of long, loose outer garment that covers the back, shoulders, and arms; a headland or promontory extending into the sea or other large body of water

synonym : shawl, cloak, mantle

(1) **cape** cod, (2) red **cape**

The superhero wore a flowing **cape** as part of their costume.

determinant

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

synonym : cause, factor, element

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

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

mimicry

n. the act or skill of copying the sounds or behavior of a particular person or animal, often to make people laugh
synonym : imitation, apery

(1) vocal **mimicry**, (2) floral **mimicry**

Some insects use **mimicry** to avoid detection by predators.

revisit

v. to go to a place again, especially after a long period
synonym : reexplore, review, reexamine

(1) **revisit** a place, (2) **revisit** an old friend

We need to **revisit** this proposal as soon as the budget is more apparent than before.

avionic

adj. relating to aviation electronics or technology; referring to aircraft or aerospace navigation, communication, control, or instrumentation systems

synonym : aviation-related, aircraft

(1) **avionic** technology, (2) **avionic** design

The **avionic** systems on the new airplane model are state-of-the-art.

stealth

n. the quality of remaining hidden or undetected; the ability to move or act with great secrecy and subtlety

synonym : sneakiness, secrecy, furtiveness

(1) **stealth** technology, (2) **stealth** bomber

The thief moved with **stealth**, careful not to make any noise and alert anyone to his presence.

headquarter

n. the central office or location from which a business or organization is managed

synonym : base, center, command

(1) administrative **headquarter**, (2) an emergency **headquarter**

The company decided to move its **headquarters** to New York

City.

craze

n. an enthusiasm for a particular activity, object, or idea that appears suddenly and achieves widespread but short-lived popularity; a fad

synonym : mania, fad, agitation

(1) **craze** for speculation, (2) fitness **craze**

We experienced a **craze** for electric vehicles as interest in green tech grew.

inconceivable

adj. hard to imagine or believe

synonym : unimaginable, impossible, unthinkable

(1) **inconceivable** pain, (2) **inconceivable** ideas

It would be **inconceivable** for him to alter his behavior.

excite

v. to make someone feel suddenly enthusiastic or eager

synonym : thrill, exhilarate, animate

(1) **excite** the crowd, (2) **excite** rebellion

The news of her promotion **excited** her.

mindful

adj. being conscious or aware of something; paying close attention to what is happening; being focused and attentive in the present moment

synonym : aware, attentive, conscious

(1) **mindful** of my responsibilities, (2) **mindful** eating

Practicing **mindful** meditation can help reduce stress and improve overall well-being.

pretension

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

synonym : presumption, pretense, affectation

(1) **pretension** to authority, (2) baseless **pretension**

His **pretensions** of being a gourmet were quickly exposed when he could not identify basic herbs and spices.

unintended

adj. not planned or meant

synonym: accidental, unconsenting, involuntary

(1) **unintended** bias, (2) **unintended** misunderstanding

Excessive human interference in the global environment may bring **unintended** consequences.

brilliance

n. the quality of being very clever or talented; the quality of being very bright or shining

synonym: splendor, glory, luster

(1) **brilliance** of diamond, (2) economic **brilliance**

The scientist's **brilliance** led to many groundbreaking discoveries in his field.

exhilarating

adj. making one feel very happy and lively; invigorating; providing a feeling of excitement or thrill

synonym: thrilling, exciting, stimulating

(1) an **exhilarating** drink, (2) **exhilarating** view

Bungee jumping was an **exhilarating** experience that left me shaking with adrenaline.

exhilarate

v. to make someone feel very happy, animated, or excited; to fill with energy or a sense of euphoria

synonym: excite, stimulate, invigorate

(1) **exhilarate** the crowd, (2) **exhilarate** the audience

The sense of accomplishment from completing a challenging hike can **exhilarate** those who love the great outdoors

Session 2: Spelling

1. rh___s experiment *n.* a type of macaque monkey (any of the various short-tailed monkeys found in Asia and Africa) often used in scientific research
2. mi__c a human voice *v.* to imitate someone's speech, movement, or behavior, especially to make others laugh
3. co_____l my identity *v.* to prevent something from being seen, found, observed, or discovered
4. the speaker's dr__e *n.* a low continuous humming noise; someone who takes more time than necessary; a pilot-less aerial vehicle that is operated by remote control
5. na_____le device *adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
6. hu_____g sound *adj.* producing a continuous, low, vibrating sound like that of the bee
7. a w__p of conversation *n.* a thin, delicate strand or vestige of something, such as smoke, vapor, or a piece of hair; a faint, barely perceptible indication or hint of something; a small creature or fairy, often depicted as a hovering, translucent figure
8. sit a__p a stack of books *adv.* on, to, or at the top
9. bankrupt cr_____or *n.* a person, company, etc. to whom a debtor owes money

ANSWERS: 1. rhesus, 2. mimic, 3. conceal, 4. drone, 5. nanoscale, 6. humming, 7. wisp, 8. atop, 9. creditor

10. re____t an old friend *v.* to go to a place again, especially after a long period
11. sensory s__a *n.* (of biology) a stiff, bristle-like appendage or hair-like structure found in certain organisms, such as insects or mosses
12. a mo____n image *adj.* in a liquid state as a result of being heated
13. un____al death *adj.* not in accordance with the normal or natural order or not normal, typical, or expected
14. av____c design *adj.* relating to aviation electronics or technology; referring to aircraft or aerospace navigation, communication, control, or instrumentation systems
15. dis____ue scene *n.* a nightclub or restaurant where recorded music is played, and people dance
16. ex____e rebellion *v.* to make someone feel suddenly enthusiastic or eager
17. uni____ed bias *adj.* not planned or meant
18. pro____ic limbs *adj.* of or relating to an artificial part of the body, such as a limb, a heart, or a breast implant
19. dis____ue party *n.* a nightclub or restaurant where recorded music is played, and people dance
20. ch__k the ball across the yard *v.* to throw something carelessly or casually; to get rid of something or someone

ANSWERS: 10. revisit, 11. seta, 12. molten, 13. unnatural, 14. avionic, 15. discotheque, 16. excite, 17. unintended, 18. prosthetic, 19. discotheque, 20. chuck

21. sup_____ic aircraft *adj.* relating to or having a speed above the speed of sound (roughly 767 miles per hour or 1,235 kilometers per hour at sea level)
22. re_____ct with family *v.* to connect again after a break or interruption
23. as_____ut in training *n.* a person trained by a space agency to travel outside the Earth's atmosphere
24. hairy s__a *n.* (of biology) a stiff, bristle-like appendage or hair-like structure found in certain organisms, such as insects or mosses
25. gl___r club *n.* a light aircraft or small, unpowered plane that is designed to glide and soar through the air using natural winds and or thermal currents
26. made a great ma_____er *n.* a motion or combination of moves that requires skill and care; a clever strategy, activity, or movement intended to give someone an advantage
27. ch_____h habitat *n.* a large, slender, and fast-running African cat with a yellowish-brown coat and black spots
28. ret_____us infection *n.* a type of RNA virus that uses the enzyme reverse transcriptase to convert its RNA into DNA, which then inserts itself into the host cell's genome, which can cause a variety of diseases in humans and animals, including HIV (Human Immunodeficiency Virus)

ANSWERS: 21. supersonic, 22. reconnect, 23. astronaut, 24. seta, 25. glider, 26. maneuver, 27. cheetah, 28. retrovirus

29. bri_____ce of diamond *n.* the quality of being very clever or talented; the quality of being very bright or shining
30. career tra_____ry *n.* the curved path followed by an object moving through space
31. st_____h bomber *n.* the quality of remaining hidden or undetected; the ability to move or act with great secrecy and subtlety
32. n__d neck *n.* a person who is very interested in and knowledgeable about a particular subject such as computers, mathematics, chess, etc.
33. digestive pr_____se *n.* an enzyme that breaks down proteins by hydrolyzing the peptide bonds between amino acids, playing a crucial role in digestion and many other physiological processes
34. wh_____ng success *adj.* extremely large, impressive, or noteworthy; it can also be used to describe a surprise or shock
35. ho__r around the table *v.* to stay in one place in the air
36. things at the na_____le *adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
37. a m__e of evidence *n.* a tiny arachnid-like creature that is related to ticks and spiders and often lives as a parasite on plants or animals
38. hum_____rd feeder *n.* a small bird with a highly specialized beak and wings that allow it to hover in place, known for its rapid wingbeats and ability to fly in any direction

ANSWERS: 29. brilliance, 30. trajectory, 31. stealth, 32. nerd, 33. protease, 34. whopping, 35. hover, 36. nanoscale, 37. mite, 38. hummingbird

39. bridge tr__s
40. hu____g bird
41. un____ed mystery
42. hum_____rd nest
43. feline ret____us
44. exh_____te the audience
45. floral mi____y
- v.* to support, brace, or strengthen a structure or object with a framework, typically made of wood or metal; to bind or tie something together, usually tightly; (noun) a framework or structure composed of beams, bars, or other elements that are designed to support or strengthen a roof, bridge, or other construction
- adj.* producing a continuous, low, vibrating sound like that of the bee
- adj.* not yet understood, explained, or resolved; remaining a mystery or enigma
- n.* a small bird with a highly specialized beak and wings that allow it to hover in place, known for its rapid wingbeats and ability to fly in any direction
- n.* a type of RNA virus that uses the enzyme reverse transcriptase to convert its RNA into DNA, which then inserts itself into the host cell's genome, which can cause a variety of diseases in humans and animals, including HIV (Human Immunodeficiency Virus)
- v.* to make someone feel very happy, animated, or excited; to fill with energy or a sense of euphoria
- n.* the act or skill of copying the sounds or behavior of a particular person or animal, often to make people laugh

ANSWERS: 39. truss, 40. humming, 41. unsolved, 42. hummingbird, 43. retrovirus, 44. exhilarate, 45. mimicry

46. c__e cod *n.* a type of long, loose outer garment that covers the back, shoulders, and arms; a headland or promontory extending into the sea or other large body of water
47. as_____ut mission *n.* a person trained by a space agency to travel outside the Earth's atmosphere
48. su_____s \$20 billion in sales *v.* to be or do better than someone or something; to excel or go beyond the limits or standards of something
49. fe_____ss bravery *adj.* having no fear; brave
50. cr__e for speculation *n.* an enthusiasm for a particular activity, object, or idea that appears suddenly and achieves widespread but short-lived popularity; a fad
51. have pro_____ic arms *adj.* of or relating to an artificial part of the body, such as a limb, a heart, or a breast implant
52. exh_____ing view *adj.* making one feel very happy and lively; invigorating; providing a feeling of excitement or thrill
53. paper-gl____r *n.* a light aircraft or small, unpowered plane that is designed to glide and soar through the air using natural winds and or thermal currents
54. daredevil adv_____er *n.* a person who enjoys or seeks dangerous and exciting experiences
55. an exh_____ing drink *adj.* making one feel very happy and lively; invigorating; providing a feeling of excitement or thrill

ANSWERS: 46. cape, 47. astronaut, 48. surpass, 49. fearless, 50. craze, 51. prosthetic, 52. exhilarating, 53. glider, 54. adventurer, 55. exhilarating

56. cra_____hy aircraft *adj.* designed to withstand an impact or collision and minimize injury or damage to people or property; able to protect occupants during a crash or collision
57. ge__o habitat *n.* a small to medium-sized lizard with soft, velvety skin, short legs, and adhesive pads on the feet that allow them to climb and walk along vertical surfaces
58. dr__e flight *n.* a low continuous humming noise; someone who takes more time than necessary; a pilot-less aerial vehicle that is operated by remote control
59. ch__k my job *v.* to throw something carelessly or casually; to get rid of something or someone
60. re_____ct a telephone *v.* to connect again after a break or interruption
61. co_____t ship *n.* the area in an aircraft or spacecraft from which the pilot controls the aircraft or spacecraft
62. mi_____l eating *adj.* being conscious or aware of something; paying close attention to what is happening; being focused and attentive in the present moment
63. su_____ro comics *n.* a fictional hero who possesses extraordinary powers and abilities and is dedicated to protecting the public
64. a computer n__d *n.* a person who is very interested in and knowledgeable about a particular subject such as computers, mathematics, chess, etc.

ANSWERS: 56. crashworthy, 57. gecko, 58. drone, 59. chuck, 60. reconnect, 61. cockpit, 62. mindful, 63. superhero, 64. nerd

65. stand a__p *adv.* on, to, or at the top
66. tr_____ic flight *adj.* pertaining to speeds approaching and crossing the sound barrier, typically referring to aircraft or objects traveling at or near the speed of sound
67. st_____h technology *n.* the quality of remaining hidden or undetected; the ability to move or act with great secrecy and subtlety
68. wh_____ng price *adj.* extremely large, impressive, or noteworthy; it can also be used to describe a surprise or shock
69. av_____c technology *adj.* relating to aviation electronics or technology; referring to aircraft or aerospace navigation, communication, control, or instrumentation systems
70. co_____l a close relationship *v.* to prevent something from being seen, found, observed, or discovered
71. am_____y a signal *v.* to enhance something, particularly sound or brightness
72. d__y authority *v.* to challenge or dare someone to do something; to resist or disobey a rule, decision, etc.
73. political ma_____ers *n.* a motion or combination of moves that requires skill and care; a clever strategy, activity, or movement intended to give someone an advantage
74. da_____on tea *n.* a common weed with a bright yellow flower and deeply notched leaves that is often seen growing in lawns and other grassy areas; its leaves can be eaten as a salad green, and its roots are sometimes used in herbal medicine

ANSWERS: 65. atop, 66. transonic, 67. stealth, 68. whopping, 69. avionic, 70. conceal, 71. amplify, 72. defy, 73. maneuver, 74. dandelion

75. mo___n lava *adj.* in a liquid state as a result of being heated
76. fe____ss attitude *adj.* having no fear; brave
77. outdoor adv____ers *n.* a person who enjoys or seeks dangerous and exciting experiences
78. house ge__o *n.* a small to medium-sized lizard with soft, velvety skin, short legs, and adhesive pads on the feet that allow them to climb and walk along vertical surfaces
79. a_t view *adj.* (the opposite of "forward") located at or towards the rear or back of a ship, aircraft, or other vehicle
80. defeating the Mi____ur *n.* in Greek mythology, a creature with the head of a bull and the body of a man is depicted as inhabiting a labyrinth on the island of Crete
81. fruit ne____r *n.* a sweet liquid produced by flowers that attracts and provides food for bees and other insects; any sweet liquid that is enjoyed as a drink or used as a flavoring
82. un____ed crime *adj.* not yet understood, explained, or resolved; remaining a mystery or enigma
83. cr__p along the leaf *v.* to move slowly, quietly, and carefully, usually to avoid being seen or heard
84. tr__s a chicken *v.* to support, brace, or strengthen a structure or object with a framework, typically made of wood or metal; to bind or tie something together, usually tightly; (noun) a framework or structure composed of beams, bars, or other elements that are designed to support or strengthen a roof, bridge, or other construction

ANSWERS: 75. molten, 76. fearless, 77. adventurer, 78. gecko, 79. aft, 80. Minotaur, 81. nectar, 82. unsolved, 83. creep, 84. truss

85. labyrinth of the Mi____ur *n.* in Greek mythology, a creature with the head of a bull and the body of a man is depicted as inhabiting a labyrinth on the island of Crete
86. Ke____n measurement *n.* a unit of measurement for temperature in the International System of Units (SI), which starts at absolute zero, the theoretical lowest limit of temperature, and named after the British physicist William Thomson, also known as Lord Kelvin
87. ex____e the crowd *v.* to make someone feel suddenly enthusiastic or eager
88. be____n of hope *n.* a light or other visible object serving as a signal, guide, or warning
89. cl____y at sports *adj.* lacking in grace or skill; awkward; cumbersome
90. fitness cr____e *n.* an enthusiasm for a particular activity, object, or idea that appears suddenly and achieves widespread but short-lived popularity; a fad
91. aer______ics design *n.* the study of the motion of air, particularly its interaction with solid objects moving through it, such as aircraft or cars
92. cl____y attempt *adj.* lacking in grace or skill; awkward; cumbersome
93. photo with a ma____e finish *adj.* having a surface without a shine, luster; non-glossy

ANSWERS: 85. Minotaur, 86. Kelvin, 87. excite, 88. beacon, 89. clumsy, 90. craze, 91. aerodynamics, 92. clumsy, 93. matte

94. mi____l of my responsibilities *adj.* being conscious or aware of something; paying close attention to what is happening; being focused and attentive in the present moment
95. un____ed drone *adj.* not having a human crew or operator, as in unmanned aerial vehicles (UAVs) or unmanned spacecraft
96. am____y the effect *v.* to enhance something, particularly sound or brightness
97. un____al disaster *adj.* not in accordance with the normal or natural order or not normal, typical, or expected
98. uni____ed misunderstanding *adj.* not planned or meant
99. house dust m__e *n.* a tiny arachnid-like creature that is related to ticks and spiders and often lives as a parasite on plants or animals
100. an aerial be____n *n.* a light or other visible object serving as a signal, guide, or warning
101. tr____ic aircraft *adj.* pertaining to speeds approaching and crossing the sound barrier, typically referring to aircraft or objects traveling at or near the speed of sound
102. d__y gravity *v.* to challenge or dare someone to do something; to resist or disobey a rule, decision, etc.
103. economic bri____ce *n.* the quality of being very clever or talented; the quality of being very bright or shining
104. Rh____s macaque *n.* a type of macaque monkey (any of the various short-tailed monkeys found in Asia and Africa) often used in scientific research

ANSWERS: 94. mindful, 95. unmanned, 96. amplify, 97. unnatural, 98. unintended, 99. mite, 100. beacon, 101. transonic, 102. defy, 103. brilliance, 104. rhesus

105. inc_____ble ideas *adj.* hard to imagine or believe
106. pancreatic pr_____se *n.* an enzyme that breaks down proteins by hydrolyzing the peptide bonds between amino acids, playing a crucial role in digestion and many other physiological processes
107. a tra_____ry missile *n.* the curved path followed by an object moving through space
108. a car-wr_____t *n.* a person who makes or repairs something, especially a craftsman or artisan who works with wood or metal
109. environmental det_____nt *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
110. red c___e *n.* a type of long, loose outer garment that covers the back, shoulders, and arms; a headland or promontory extending into the sea or other large body of water
111. su_____s imagination *v.* to be or do better than someone or something; to excel or go beyond the limits or standards of something
112. su_____ro movies *n.* a fictional hero who possesses extraordinary powers and abilities and is dedicated to protecting the public
113. navigator's co_____t *n.* the area in an aircraft or spacecraft from which the pilot controls the aircraft or spacecraft
114. ne___r of the gods *n.* a sweet liquid produced by flowers that attracts and provides food for bees and other insects; any sweet liquid that is enjoyed as a drink or used as a flavoring

ANSWERS: 105. inconceivable, 106. protease, 107. trajectory, 108. wright, 109. determinant, 110. cape, 111. surpass, 112. superhero, 113. cockpit, 114. nectar

115. ho__r between life and death *v.* to stay in one place in the air
116. sup_____ic wind tunnel *adj.* relating to or having a speed above the speed of sound (roughly 767 miles per hour or 1,235 kilometers per hour at sea level)
117. an emergency hea_____er *n.* the central office or location from which a business or organization is managed
118. a det_____nt of crop yields *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
119. administrative hea_____er *n.* the central office or location from which a business or organization is managed
120. co_____in his freedom *v.* to restrict or limit someone or something's freedom or ability to do something
121. ma__e coating *adj.* having a surface without a shine, luster; non-glossy
122. re_____t a place *v.* to go to a place again, especially after a long period
123. inc_____ble pain *adj.* hard to imagine or believe
124. the cr_____or's claims *n.* a person, company, etc. to whom a debtor owes money
125. exh_____te the crowd *v.* to make someone feel very happy, animated, or excited; to fill with energy or a sense of euphoria
126. pre_____on to authority *n.* the act of claiming or asserting something, especially without good reason or without evidence; an unfounded or excessive claim or ambition

ANSWERS: 115. hover, 116. supersonic, 117. headquarter, 118. determinant, 119. headquarter, 120. constrain, 121. matte, 122. revisit, 123. inconceivable, 124. creditor, 125. exhilarate, 126. pretension

127. ch____h sprint *n.* a large, slender, and fast-running African cat with a yellowish-brown coat and black spots
128. an un____ed stop *adj.* not having a human crew or operator, as in unmanned aerial vehicles (UAVs) or unmanned spacecraft
129. vocal mi____y *n.* the act or skill of copying the sounds or behavior of a particular person or animal, often to make people laugh
130. baseless pre____on *n.* the act of claiming or asserting something, especially without good reason or without evidence; an unfounded or excessive claim or ambition
131. da____on root *n.* a common weed with a bright yellow flower and deeply notched leaves that is often seen growing in lawns and other grassy areas; its leaves can be eaten as a salad green, and its roots are sometimes used in herbal medicine
132. cr__p toward the mouse *v.* to move slowly, quietly, and carefully, usually to avoid being seen or heard
133. Ke____n scale *n.* a unit of measurement for temperature in the International System of Units (SI), which starts at absolute zero, the theoretical lowest limit of temperature, and named after the British physicist William Thomson, also known as Lord Kelvin
134. co____in information flow *v.* to restrict or limit someone or something's freedom or ability to do something

ANSWERS: 127. cheetah, 128. unmanned, 129. mimicry, 130. pretension, 131. dandelion, 132. creep, 133. Kelvin, 134. constrain

135. aircraft wr___t *n.* a person who makes or repairs something, especially a craftsman or artisan who works with wood or metal
136. a w__p of mist *n.* a thin, delicate strand or vestige of something, such as smoke, vapor, or a piece of hair; a faint, barely perceptible indication or hint of something; a small creature or fairy, often depicted as a hovering, translucent figure
137. mi__c numerous instruments *v.* to imitate someone's speech, movement, or behavior, especially to make others laugh
138. cra_____hy design *adj.* designed to withstand an impact or collision and minimize injury or damage to people or property; able to protect occupants during a crash or collision
139. a_t cabin *adj.* (the opposite of "forward") located at or towards the rear or back of a ship, aircraft, or other vehicle
140. aer_____ics research *n.* the study of the motion of air, particularly its interaction with solid objects moving through it, such as aircraft or cars

ANSWERS: 135. wright, 136. wisp, 137. mimic, 138. crashworthy, 139. aft, 140. aerodynamics

Session 3: Fill in the Blanks

1. The _____ of the bees filled the air as she walked through the garden.
adj. producing a continuous, low, vibrating sound like that of the bee
2. We need to _____ this proposal as soon as the budget is more apparent than before.
v. to go to a place again, especially after a long period
3. 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
4. The scientist cooled the sample to just a couple of _____ to observe quantum effects.
n. a unit of measurement for temperature in the International System of Units (SI), which starts at absolute zero, the theoretical lowest limit of temperature, and named after the British physicist William Thomson, also known as Lord Kelvin
5. Despite the intense verbal abuse, she _____ her anger well.
v. to prevent something from being seen, found, observed, or discovered
6. The _____ spacecraft landed on the asteroid.
adj. not having a human crew or operator, as in unmanned aerial vehicles (UAVs) or unmanned spacecraft
7. We experienced a _____ for electric vehicles as interest in green tech grew.
n. an enthusiasm for a particular activity, object, or idea that appears suddenly and achieves widespread but short-lived popularity; a fad

ANSWERS: 1. humming, 2. revisit, 3. mimic, 4. Kelvin, 5. concealed, 6. unmanned, 7. craze

8. The pilot sat in the _____ of the airplane.
n. the area in an aircraft or spacecraft from which the pilot controls the aircraft or spacecraft
9. The company has shown an excellent growth _____ over the years.
n. the curved path followed by an object moving through space
10. After a long period of estrangement, they _____ with each other.
v. to connect again after a break or interruption
11. He couldn't wait to hit the _____ and dance the night away.
n. a nightclub or restaurant where recorded music is played, and people dance
12. The case remains _____ after years of investigation.
adj. not yet understood, explained, or resolved; remaining a mystery or enigma
13. The spacecraft reentered the Earth's atmosphere at _____ speeds.
adj. relating to or having a speed above the speed of sound (roughly 767 miles per hour or 1,235 kilometers per hour at sea level)
14. The company decided to move its _____ to New York City.
n. the central office or location from which a business or organization is managed
15. She tried to _____ her parents by moving to the city against their wishes.
v. to challenge or dare someone to do something; to resist or disobey a rule, decision, etc.
16. The superhero wore a flowing _____ as part of their costume.
n. a type of long, loose outer garment that covers the back, shoulders, and arms; a headland or promontory extending into the sea or other large body of water

ANSWERS: 8. cockpit, 9. trajectory, 10. reconnected, 11. discotheque, 12. unsolved, 13. supersonic, 14. headquarters, 15. defy, 16. cape

17. Excessive human interference in the global environment may bring _____ consequences.

adj. not planned or meant

18. The construction workers had to _____ up the beams to support the weight of the building.

v. to support, brace, or strengthen a structure or object with a framework, typically made of wood or metal; to bind or tie something together, usually tightly; (noun) a framework or structure composed of beams, bars, or other elements that are designed to support or strengthen a roof, bridge, or other construction

19. The _____ firefighter rushed into the burning building to save a trapped child.

adj. having no fear; brave

20. The scientist's _____ led to many groundbreaking discoveries in his field.

n. the quality of being very clever or talented; the quality of being very bright or shining

21. Superman is a classic _____ known for his superhuman strength and flying ability.

n. a fictional hero who possesses extraordinary powers and abilities and is dedicated to protecting the public

22. He was, by nature, a cyber _____.

n. a person who is very interested in and knowledgeable about a particular subject such as computers, mathematics, chess, etc.

23. The mushroom's cap was covered in tiny _____ giving it a velvety texture.

n. (of biology) a stiff, bristle-like appendage or hair-like structure found in certain organisms, such as insects or mosses

ANSWERS: 17. unintended, 18. truss, 19. fearless, 20. brilliance, 21. superhero, 22. nerd, 23. setae,

24. The _____ of the car allowed it to glide smoothly through the air.
n. the study of the motion of air, particularly its interaction with solid objects moving through it, such as aircraft or cars
25. The _____ metal was poured into the mold.
adj. in a liquid state as a result of being heated
26. The _____ of the flowers attracted many bees to the garden.
n. a sweet liquid produced by flowers that attracts and provides food for bees and other insects; any sweet liquid that is enjoyed as a drink or used as a flavoring
27. He heard a _____ of sirens roar from the neighboring town.
n. a low continuous humming noise; someone who takes more time than necessary; a pilot-less aerial vehicle that is operated by remote control
28. In the summer, fields are filled with yellow _____ flowers.
n. a common weed with a bright yellow flower and deeply notched leaves that is often seen growing in lawns and other grassy areas; its leaves can be eaten as a salad green, and its roots are sometimes used in herbal medicine
29. The news of her promotion _____ her.
v. to make someone feel suddenly enthusiastic or eager
30. The _____ growth of the city has disrupted wildlife habitats.
adj. not in accordance with the normal or natural order or not normal, typical, or expected
31. The body of his car has a _____ finish.
adj. having a surface without a shine, luster; non-glossy

ANSWERS: 24. aerodynamics, 25. molten, 26. nectar, 27. drone, 28. dandelion, 29. excited, 30. unnatural, 31. matte

32. The ____ infestation in the old house was a serious problem for the residents.
n. a tiny arachnid-like creature that is related to ticks and spiders and often lives as a parasite on plants or animals
33. The ocean _____ holds the record for the oldest solo Pacific Ocean crossing by a sailboat.
n. a person who enjoys or seeks dangerous and exciting experiences
34. One _____ of success is having a positive attitude and a strong work ethic.
n. a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
35. The lighthouse served as a _____ to guide ships safely into port.
n. a light or other visible object serving as a signal, guide, or warning
36. In this class, we learn the basic _____ of the plane.
n. a motion or combination of moves that requires skill and care; a clever strategy, activity, or movement intended to give someone an advantage
37. Bungee jumping was an _____ experience that left me shaking with adrenaline.
adj. making one feel very happy and lively; invigorating; providing a feeling of excitement or thrill
38. The ____ of smoke from the candle added to the room's cozy ambiance.
n. a thin, delicate strand or vestige of something, such as smoke, vapor, or a piece of hair; a faint, barely perceptible indication or hint of something; a small creature or fairy, often depicted as a hovering, translucent figure

ANSWERS: 32. mite, 33. adventurer, 34. determinant, 35. beacon, 36. maneuver, 37. exhilarating, 38. wisp

39. The aircraft reached _____ speeds as it broke the sound barrier.
adj. pertaining to speeds approaching and crossing the sound barrier, typically referring to aircraft or objects traveling at or near the speed of sound
40. The shuttle _____ trained for months before embarking on the space mission.
n. a person trained by a space agency to travel outside the Earth's atmosphere
41. The patient's condition improved after beginning a _____ treatment regimen.
n. a type of RNA virus that uses the enzyme reverse transcriptase to convert its RNA into DNA, which then inserts itself into the host cell's genome, which can cause a variety of diseases in humans and animals, including HIV (Human Immunodeficiency Virus)
42. I asked the lawyer to initiate _____ negotiations for voluntary liquidation.
n. a person, company, etc. to whom a debtor owes money
43. Watching a _____ at a flower is like observing a miniature ballet of nature.
n. a small bird with a highly specialized beak and wings that allow it to hover in place, known for its rapid wingbeats and ability to fly in any direction
44. Aging _____ up slowly with time.
v. to move slowly, quietly, and carefully, usually to avoid being seen or heard
45. Some insects use _____ to avoid detection by predators.
n. the act or skill of copying the sounds or behavior of a particular person or animal, often to make people laugh

ANSWERS: 39. transonic, 40. astronaut, 41. retrovirus-targeted, 42. creditor, 43. hummingbird, 44. creeps, 45. mimicry

46. His _____ of being a gourmet were quickly exposed when he could not identify basic herbs and spices.
- n.* the act of claiming or asserting something, especially without good reason or without evidence; an unfounded or excessive claim or ambition
47. The _____ systems on the new airplane model are state-of-the-art.
- adj.* relating to aviation electronics or technology; referring to aircraft or aerospace navigation, communication, control, or instrumentation systems
48. The mother _____ fiercely protect their cubs, teaching them valuable hunting and survival skills before they venture out independently.
- n.* a large, slender, and fast-running African cat with a yellowish-brown coat and black spots
49. The political situation _____ the country's economic growth and foreign relations.
- v.* to restrict or limit someone or something's freedom or ability to do something
50. The military vehicles are built with _____ structures to protect soldiers in combat situations.
- adj.* designed to withstand an impact or collision and minimize injury or damage to people or property; able to protect occupants during a crash or collision
51. The new smartphone has a _____ 1TB of storage space.
- adj.* extremely large, impressive, or noteworthy; it can also be used to describe a surprise or shock
52. New _____ joints are less prone to metal poisoning.
- adj.* of or relating to an artificial part of the body, such as a limb, a heart, or a breast implant

ANSWERS: 46. pretensions, 47. avionic, 48. cheetahs, 49. constrained, 50. crashworthy, 51. whopping, 52. prosthetic

53. The eagle perched _____ the tallest tree in the forest.

adv. on, to, or at the top

54. Practicing _____ meditation can help reduce stress and improve overall well-being.

adj. being conscious or aware of something; paying close attention to what is happening; being focused and attentive in the present moment

55. The ancient Greek myth tells the tale of the _____ a half-man and half-bull creature.

n. in Greek mythology, a creature with the head of a bull and the body of a man is depicted as inhabiting a labyrinth on the island of Crete

56. The hang-_____ enthusiast looked at the clear skies, anticipating a perfect day to take flight.

n. a light aircraft or small, unpowered plane that is designed to glide and soar through the air using natural winds and or thermal currents

57. The ____ section of the ship suffered significant damage after the collision with the reef.

adj. (the opposite of "forward") located at or towards the rear or back of a ship, aircraft, or other vehicle

58. The thief moved with _____ careful not to make any noise and alert anyone to his presence.

n. the quality of remaining hidden or undetected; the ability to move or act with great secrecy and subtlety

59. I will _____ these old shoes in the trash and buy a new pair.

v. to throw something carelessly or casually; to get rid of something or someone

ANSWERS: 53. atop, 54. mindful, 55. Minotaur, 56. glider, 57. aft, 58. stealth, 59. chuck

60. _____ enzymes play a crucial role in breaking down proteins in the digestive system.
- n.* an enzyme that breaks down proteins by hydrolyzing the peptide bonds between amino acids, playing a crucial role in digestion and many other physiological processes
61. Two birds were _____ overhead.
- v.* to stay in one place in the air
62. You might need to _____ this point.
- v.* to enhance something, particularly sound or brightness
63. The sense of accomplishment from completing a challenging hike can _____ those who love the great outdoors
- v.* to make someone feel very happy, animated, or excited; to fill with energy or a sense of euphoria
64. This process improves the strength of the metal by controlling the _____ lattice structure of the metal.
- adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
65. The _____ waiter accidentally spilled a tray of drinks on a customer.
- adj.* lacking in grace or skill; awkward; cumbersome
66. It would be _____ for him to alter his behavior.
- adj.* hard to imagine or believe
67. I saw a _____ crawling on the wall of my bedroom.
- n.* a small to medium-sized lizard with soft, velvety skin, short legs, and adhesive pads on the feet that allow them to climb and walk along vertical surfaces

ANSWERS: 60. Protease, 61. hovering, 62. amplify, 63. exhilarate, 64. nanoscale, 65. clumsy, 66. inconceivable, 67. gecko

68. The athlete's record-breaking performance _____ all expectations.
- v.* to be or do better than someone or something; to excel or go beyond the limits or standards of something
69. She was a skilled _____ able to craft intricate pieces of furniture.
- n.* a person who makes or repairs something, especially a craftsman or artisan who works with wood or metal
70. _____ monkeys are known for their intelligence and adaptability in captivity.
- n.* a type of macaque monkey (any of the various short-tailed monkeys found in Asia and Africa) often used in scientific research

ANSWERS: 68. surpassed, 69. wright, 70. Rhesus