

Englist.me



Vocabulary Builder Reference from...

David M. Howard: Can we recreate the voice of a 3,000-year-old mummy? | TED Talk

https://www.ted.com/talks/david_m_howard_can_we_recreate_the_voice_of_a_3_000_year_old_mummy

All Words

IMPORTANT

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

Session 1: Word List

define

v. to state or explain precisely the nature, scope, or meaning of something

synonym: characterize, depict, express

(1) **define** a word, (2) **define** my position

To advance this discussion, we must **define** "success" rigorously.

communicate

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

synonym: convey, share, transmit

(1) **communicate** his anxieties to the psychiatrist,

(2) **communicate** well with my advisor

Dolphins use sound to **communicate** with each other.

evolve

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

synonym: develop, mature, grow

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

Eyeless fish **evolved** in dark caves.

millennium

n. a span of 1000 years, or the 1000th anniversary (plural: millennia)

(1) past **millennium**, (2) **millennium** bottle of wine
Our world is in the third **millennium**.

argue

v. to express differing opinions or points of view, often in a heated or contentious manner; to present a case or reasoning to persuade or convince others

synonym: debate, dispute, quarrel

(1) **argue** a case, (2) **argue** passionately

The couple began to **argue** over which restaurant to go to for dinner.

resilient

adj. able to withstand or recover quickly from difficult conditions

synonym: robust, sturdy, tough

(1) a hard and **resilient** steel, (2) **resilient** population

She is a **resilient** person and has always bounced back from setbacks.

critic

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

synonym: pundit, analyst, attacker

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

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

transmit

v. to send or forward an electronic signal; to pass something from one person or thing to another

synonym: convey, share, dispatch

(1) **transmit** the disease, (2) **transmit** information

Parents often **transmit** their characteristics to their children.

verbal

adj. expressed in spoken rather than written words

synonym: speaking, lingual, oral

(1) **verbal** communication, (2) **verbal** abuse

The candidate must have excellent **verbal** skills.

emotion

n. a strong feeling such as love, anger, etc. deriving from one's situation, mood, or relationships with others

synonym: feeling, sentiment, passion

(1) control my **emotion**, (2) afraid to show **emotion**

Some **emotions** are common across cultures and backgrounds.

identity

n. the fact of being who or what somebody or something is; the features, emotions, or ideas that distinguish persons from one another

synonym: character, personality, individuality

(1) mistaken **identity**, (2) **identity** as an individual

The terrorist's **identity** remains unknown.

recognize

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

synonym: acknowledge, identify, admit

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

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

lyric

n. the words of a pop song

synonym: song, jingle, ballad

(1) **lyrics** of a song, (2) **lyric** poetry

He embedded the strong will in this **lyric**.

fundamental

adj. forming an essential base or core from which everything else develops or is affected

synonym: basic, essential, entire

(1) **fundamental** education, (2) **fundamental** rights

Human behavior has **fundamental** characteristics.

acoustic

adj. relating to sound or the sense of hearing

synonym: aural, hearing, acoustical

(1) **acoustic** properties of a hall, (2) **acoustic** guitar

The ground acts as an **acoustic** barrier against outside

sounds.

presence

n. the fact or state that someone or something exists, occurs, or is present

synonym: existence, actuality, fact

(1) the evidence of the **presence**, (2) his majestic **presence**

The path to a solid online **presence** necessitates a high technical ability.

compete

v. to strive to achieve more success than someone or something

synonym: contend, contest, vie

(1) **compete** against a friend, (2) **compete** fiercely

You must **compete** with others to obtain this position.

millennial

adj. relating to a period of a thousand years or the year 2000; (noun) a person born between the early 1980s and the late 1990s, also called Generation Y

synonym: thousand, (noun) Generation Y

(1) **millennial** record, (2) the **millennial** reign

Earth's ecosystems are greatly affected by **millennial-scale** changes in climate.

humankind

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

synonym: humanity, human race, society

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

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

device

n. a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic

synonym: gadget, instrument, tool

(1) electronic **device**, (2) tracking **device**

I always carry a backup **device** in case my phone runs out of battery.

electron

n. a tiny particle with the negative electrical charge
synonym : negatron

(1) flow of **electrons**, (2) beam of **electrons**

The outermost **electron** shell determines the chemical properties of an atom.

roughly

adv. approximately but not precisely; with a violent manner
synonym : approximately, more or less, around

(1) **roughly** explain my idea, (2) **roughly** speaking

Five miles is **roughly** similar to eight kilometers.

dam

n. a wall constructed over a river to block the flow of water, mainly used to generate energy

synonym : barricade, barrier, embankment

(1) **dam-building** program, (2) **dam** collapsing

The break in the **dam** threatened the valley.

environment

n. the natural world such as air, water, and land in which humans, animals, and plants live

synonym : atmosphere, surroundings, climate

(1) **environment** affairs, (2) chaotic **environment**

Every human is responsible for taking care of the Earth's **environment**.

one-to-many

adj. describing a relationship between two things or entities where one thing maps to multiple things in the other entity

synonym : one-to-multiple, one-to-plenty, one-to-numerous

(1) **one-to-many** messaging, (2) **one-to-many** mapping

The **one-to-many** relationship between a parent database and child tables can lead to complex data management.

preserve

v. to keep or maintain a particular quality, feature, etc., especially to prevent it from decaying, being damaged, or being destroyed

synonym : conserve, care for, maintain

(1) **preserve** my strength, (2) **preserve** a country's heritage

They worked hard to **preserve** the nature of their native lands.

resistance

n. the act of defending oneself from an aggressor or refusing to accept something

synonym: opposition, antagonism, defiance

(1) **resistance** movement, (2) **resistance** to insulin

The bill to increase the consumption tax had passed despite much **resistance** from the public.

human-made

adj. created or produced by humans; artificial

synonym: artificial, unnatural, manufactured

(1) **human-made** climate change, (2) the worst **human-made** disaster

The bridge is a **human-made** structure and was built to span the river.

difficulty

n. a condition or state that causes problems

synonym: hardship, complication, problem

(1) the degree of **difficulty**, (2) **difficulty** in breathing

He has **difficulty** exercising because of a back injury sustained in an accident.

evolutionary

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

synonym: developmental, mutative, transformative

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

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

redundancy

n. the state of being unnecessary, especially through being able to be replaced by something else

synonym: surplus, excess, overabundance

(1) eliminate **redundancy**, (2) **redundancy** payment

The company had to let go of some employees due to

redundancy.

specifically

adv. only associated with or meant for one thing

synonym: especially, particularly, notably

(1) designed **specifically** for men, (2) for **specifically** American customers

This ad campaign is aimed **specifically** at young women.

thunderstorm

n. a storm with lightning and thunder, typically with heavy rain and strong gusts of wind

synonym: tempest, lightning storm, deluge

(1) severe **thunderstorms**, (2) **thunderstorm** advisory

The forecast called for a chance of **thunderstorms** in the afternoon.

mask

v. to conceal something; (noun) a covering that you wear over your face to hide it

synonym: disguise, camouflage, conceal

(1) **mask** body odor, (2) an oxygen **mask**

The politician tried to **mask** the corruption.

experiment

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

synonym: experimentation, investigation

(1) **experiment** design, (2) series of **experiments**

His **experiments** showed highly positive results.

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?

microphone

n. a device that converts sound into an electrical signal used for recording sounds or making the voice louder

synonym: mic, megaphone, amplifier

(1) **microphone** cable, (2) built-in **microphone**

The interviewer asked him to speak into the **microphone**.

filter

n. any of several types of equipment or systems used to separate particles from liquids or gases or to remove specific forms of light

synonym: strainer

(1) gas **filter**, (2) clogged **filter**

Ozone is a primary **filter** to protect Earth's surface from harmful UV rays.

demonstration

n. a display or show, often of a particular skill or product, intended to convince or persuade others

synonym: manifestation, presentation, show

(1) **demonstration** project, (2) a campus **demonstration**

Thousands of people attended the protest **demonstration** against the proposed policy.

high-pass

adj. describing a filter or circuit that allows high-frequency signals to pass through while attenuating or cutting off low-frequency signals

(1) **high-pass** amplifier, (2) **high-pass** cutoff

The audio engineer applied a **high-pass** filter to remove background noise from the recording.

sibilant

adj. producing a hissing sound, often with an "s" or "sh" sound

synonym: hissing, whispering, murmuring

(1) **sibilant** consonant, (2) **sibilant** sound

The singer's **sibilant** voice added a unique sound to the song.

frequency

n. an ordered array of colors into which a light beam can be split

synonym: recurrence, repetition, regularity

(1) **frequency** band, (2) high **frequency**

The oscillator hunts for the correct **frequency**.

vice

n. wrongdoing or wicked behavior; (in the form of vice versa) with the order reversed; (as a prefix) someone with a job immediately below a particular person

synonym: corruption, depravity, evil

(1) virtue and **vice**, (2) **vice-chair** of the committee

Cats hate dogs and **vice** versa.

rumble

v. to make a low, heavy continuous sound

synonym: roar, growl, grumble

(1) **rumble** an order, (2) **rumble** down the dirt track

The thunder **rumbled** in the distance.

thunder

n. the loud, deep sound made by air expanding along the path of a bolt of lightning; a deep, prolonged loud noise

synonym: detonation, rumble, roar

(1) **thunder** cloud, (2) deafening **thunder** of applause

The roaring **thunder** was so loud that it woke me from sleep.

evolution

n. a gradual process of transformation of living things

synonym: elaboration, expansion, transition

(1) human **evolution**, (2) **evolution** theory

They study the **evolution** of the universe.

cheat

v. to act dishonestly or unfairly to gain an advantage or to deceive someone; to break the rules or laws

synonym: deceive, swindle, defraud

(1) **cheat** on my taxes, (2) **cheat** in a game

Even though he knew it was wrong, he **cheated** on the exam.

loudspeaker

n. an electronic device that amplifies sound, typically used to address a large audience or to play music or other audio content in public areas

synonym: speaker, loudhailer, megaphone

(1) wireless **loudspeaker**, (2) **loudspeaker** system

The teacher spoke through the **loudspeaker** so that every student could hear the announcement.

opera

n. a drama set to music, in which the words are sung rather than spoken

synonym: musical, operetta, oratorio

(1) ballad **opera**, (2) **opera** performance

She loves going to the **opera** house and hearing the beautiful music.

orchestra

n. a large group of musicians who play classical music together, usually with instruments such as strings, woodwinds, brass, and percussion

synonym: ensemble, symphony, band

(1) full **orchestra**, (2) **orchestra** conductor

The accomplished **orchestra** will give two more performances this week.

auditorium

n. a room or building used for concerts, plays, or other public performances

synonym: hall, theater, amphitheater

(1) open-air **auditorium**, (2) **auditorium** annex

The **auditorium** seating was filled with people waiting for the concert to begin.

engage

v. to attract and keep someone's attention and interest; to participate in or obtain services of something

synonym: confront, employ, amuse

(1) **engage** in environmental protection activities,

(2) **engage** a new employee

Many multinational companies are **engaged** in the reconstruction of that country.

aspect

n. one part or feature of a situation, problem, subject, etc.

synonym: characteristic, element, factor

(1) nontechnical **aspects** of the job, (2) **aspects** of social,

political, and economic life

His professional experience includes all **aspects** of media production.

larynx

n. an organ in the top of the throat involved in breathing, producing sound

(1) irritate the **larynx**, (2) narrowing of the **larynx**

Smoking significantly increases the risk of **larynx** cancer.

tube

n. a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape

synonym : pipe, hose, duct

(1) a capillary **tube**, (2) a glass **tube**

The **tube** train was packed with commuters during rush hour.

arrow

n. a thin, pointed projectile designed to be shot from a bow; a symbol or pointer that is shaped like an arrow

synonym : shaft, dart, projectile

(1) **arrow** pointing, (2) **arrow** diagram

The archer aimed his **arrow** carefully at the target.

dimension

n. a measurable extent of a particular kind, such as width, height, or length

synonym : extent, measurement, size

(1) new **dimension**, (2) the crosswise **dimension**

Overall **dimensions** are approximately 400x200mm.

engineer

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

synonym : architect, creator, builder

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

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

transmitter

n. a piece of equipment used for generating and sending electronic signals, especially radio or television signals

synonym : sender

(1) a **transmitter** of a family line, (2) radio **transmitter**
This substance acts as a neural **transmitter** substance.

receiver

n. the part of a phone that you hold close to your ear and mouth; a person who receives something
synonym: acceptor, recipient, collector

(1) a GPS **receiver**, (2) aid **receiver**

Delivery companies often require the **receiver's** signature to certify the completion of package delivery.

tune

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

synonym: melody, harmony, (verb) adjust

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

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

develop

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

synonym: evolve, progress, advance

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

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

brain

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

synonym: intellect, mind, encephalon

(1) basic **brain** function, (2) permanent **brain** damage

X-rays revealed a small tumor in his **brain**.

allude

v. to suggest or make reference to something indirectly
synonym: imply, indicate, hint

(1) **allude** to his low origin, (2) **allude** to the planning

He **alluded** to the problem but did not mention it directly.

recreate

v. to make something that existed previously happen or appear to exist again

synonym : renovate, vivify, revive

(1) **recreate** a single country, (2) **recreate** the feeling of the 1920s

She **recreated** the atmosphere of the pre-war age with her stage setting.

mummy

n. a body of a human or animal that has been preserved, typically by being embalmed and wrapped in linen or other material

synonym : corpse, remains

(1) **mummy** tomb, (2) ancient Egyptian **mummy**

The well-preserved **mummy** was discovered in an ancient tomb in the desert.

tract

n. a region of land, often with a specific purpose or use, such as farming, forestry, or mining; a bundle of nerves or a system of organs in the body

synonym : region, area, tube

(1) a urinary **tract** infection, (2) a **tract** of virgin forest

The farmer owns a large **tract** of land where he grows corn and soybeans.

vowel

n. a speech sound pronounced with an open vocal tract, typically made by vibrating the vocal cords and without any constriction or obstruction of airflow in the lungs or mouth

synonym : letter, sound, syllable

(1) **vowel** chart, (2) **vowel** combination

Please pronounce your name slowly and emphasize the **vowel** sounds.

articulate

v. to express oneself clearly and effectively in spoken or written language

synonym : express, state, utter

(1) **articulate** his position, (2) eloquently **articulate**

She was able to **articulate** her argument in the debate clearly.

solid

adj. hard or firm; characterized by good substantial quality

synonym : stable, reliable, hard

(1) **solid** ally, (2) **solid** employment measures

The **solid-state** of water is called ice.

hieroglyph

n. a writing system using picture symbols, such as the one used in ancient Egypt

synonym : character, cipher, figure

(1) Egyptian **hieroglyph**, (2) the **hieroglyph** of the bird

Each beautiful **hieroglyph** represents either an idea or a sound.

afterlife

n. life after death, as believed in many cultures and religious traditions

synonym : eternal life, immortality, hereafter

(1) **afterlife** name, (2) corporate **afterlife**

The belief in an **afterlife** comforted those mourning the loss of their loved ones.

modern

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

synonym : contemporary, stylish, current

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

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

noisy

adj. making a lot of sounds, especially loud or disruptive sound

synonym : loud, cacophonous, clamorous

(1) **noisy** neighbor, (2) **noisy** party

The construction outside was creating a **noisy** distraction from my work.

thrive

v. to grow vigorously; to make steady progress

synonym : bloom, flourish, prosper

(1) **thrive** in a society, (2) **thrive** on pressure
Without investment, a business cannot **thrive**.

Session 2: Spelling

1. a civil en_____er
n. a person whose job is designing, building, or maintaining something such as machines, structures, or software
2. ru___e an order
v. to make a low, heavy continuous sound
3. ecology and evo_____ary biology
adj. relating to or denoting how living things develop or change from earlier forms
4. control my em_____n
n. a strong feeling such as love, anger, etc. deriving from one's situation, mood, or relationships with others
5. dif_____ty in breathing
n. a condition or state that causes problems
6. a glass t___e
n. a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape
7. the degree of dif_____ty
n. a condition or state that causes problems
8. a urinary tr__t infection
n. a region of land, often with a specific purpose or use, such as farming, forestry, or mining; a bundle of nerves or a system of organs in the body
9. history of hu_____nd
n. the whole of the living human inhabitants of the earth
10. re_____nt population
adj. able to withstand or recover quickly from difficult conditions
11. v__e-chair of the committee
n. wrongdoing or wicked behavior; (in the form of vice versa) with the order reversed; (as a prefix) someone with a job immediately below a particular person

ANSWERS: 1. engineer, 2. rumble, 3. evolutionary, 4. emotion, 5. difficulty, 6. tube, 7. difficulty, 8. tract, 9. humankind, 10. resilient, 11. vice

12. eloquently art_____te *v.* to express oneself clearly and effectively in spoken or written language
13. de_____p a skill *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
14. electronic de_____e *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
15. ev_____e over the past decade *v.* to develop gradually, or to cause the development of something or someone gradually
16. a campus dem_____ion *n.* a display or show, often of a particular skill or product, intended to convince or persuade others
17. gas fi_____r *n.* any of several types of equipment or systems used to separate particles from liquids or gases or to remove specific forms of light
18. de_____e my position *v.* to state or explain precisely the nature, scope, or meaning of something
19. m__k body odor *v.* to conceal something; (noun) a covering that you wear over your face to hide it
20. ly__cs of a song *n.* the words of a pop song
21. clogged fi_____r *n.* any of several types of equipment or systems used to separate particles from liquids or gases or to remove specific forms of light

ANSWERS: 12. articulate, 13. develop, 14. device, 15. evolve, 16. demonstration, 17. filter, 18. define, 19. mask, 20. lyric, 21. filter

22. past mil_____um *n.* a span of 1000 years, or the 1000th anniversary (plural: millennia)
23. mistaken id_____ty *n.* the fact of being who or what somebody or something is; the features, emotions, or ideas that distinguish persons from one another
24. hi_____ss cutoff *adj.* describing a filter or circuit that allows high-frequency signals to pass through while attenuating or cutting off low-frequency signals
25. hi_____ss amplifier *adj.* describing a filter or circuit that allows high-frequency signals to pass through while attenuating or cutting off low-frequency signals
26. art cr____c *n.* someone who expresses opinions about the quality of books, music, etc.
27. chaotic env_____nt *n.* the natural world such as air, water, and land in which humans, animals, and plants live
28. re_____ze achievement *v.* to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered
29. ro_____y speaking *adv.* approximately but not precisely; with a violent manner
30. res_____ce to insulin *n.* the act of defending oneself from an aggressor or refusing to accept something
31. new di_____on *n.* a measurable extent of a particular kind, such as width, height, or length

ANSWERS: 22. millennium, 23. identity, 24. high-pass, 25. high-pass, 26. critic, 27. environment, 28. recognize, 29. roughly, 30. resistance, 31. dimension

32. deafening th____r of applause *n.* the loud, deep sound made by air expanding along the path of a bolt of lightning; a deep, prolonged loud noise
33. vo__l combination *n.* a speech sound pronounced with an open vocal tract, typically made by vibrating the vocal cords and without any constriction or obstruction of airflow in the lungs or mouth
34. co____e against a friend *v.* to strive to achieve more success than someone or something
35. tracking de___e *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
36. d_m collapsing *n.* a wall constructed over a river to block the flow of water, mainly used to generate energy
37. id____ty as an individual *n.* the fact of being who or what somebody or something is; the features, emotions, or ideas that distinguish persons from one another
38. radio tra_____er *n.* a piece of equipment used for generating and sending electronic signals, especially radio or television signals
39. the evo_____ary process *adj.* relating to or denoting how living things develop or change from earlier forms
40. ar__e passionately *v.* to express differing opinions or points of view, often in a heated or contentious manner; to present a case or reasoning to persuade or convince others

ANSWERS: 32. thunder, 33. vowel, 34. compete, 35. device, 36. dam, 37. identity, 38. transmitter, 39. evolutionary, 40. argue

41. vo__l chart *n.* a speech sound pronounced with an open vocal tract, typically made by vibrating the vocal cords and without any constriction or obstruction of airflow in the lungs or mouth
42. Egyptian hie____ph *n.* a writing system using picture symbols, such as the one used in ancient Egypt
43. res____ce movement *n.* the act of defending oneself from an aggressor or refusing to accept something
44. ar__w diagram *n.* a thin, pointed projectile designed to be shot from a bow; a symbol or pointer that is shaped like an arrow
45. th____r cloud *n.* the loud, deep sound made by air expanding along the path of a bolt of lightning; a deep, prolonged loud noise
46. op__a performance *n.* a drama set to music, in which the words are sung rather than spoken
47. tr____it information *v.* to send or forward an electronic signal; to pass something from one person or thing to another
48. open-air aud____um *n.* a room or building used for concerts, plays, or other public performances
49. ballad op__a *n.* a drama set to music, in which the words are sung rather than spoken
50. severe thu____orms *n.* a storm with lightning and thunder, typically with heavy rain and strong gusts of wind
51. a tr__t of virgin forest *n.* a region of land, often with a specific purpose or use, such as farming, forestry, or mining; a bundle of nerves or a system of organs in the body

ANSWERS: 41. vowel, 42. hieroglyph, 43. resistance, 44. arrow, 45. thunder, 46. opera, 47. transmit, 48. auditorium, 49. opera, 50. thunderstorm, 51. tract

52. the crosswise di_____on *n.* a measurable extent of a particular kind, such as width, height, or length
53. en___e in environmental protection activities *v.* to attract and keep someone's attention and interest; to participate in or obtain services of something
54. for spe_____lly American customers *adv.* only associated with or meant for one thing
55. com_____te his anxieties to the psychiatrist *v.* to share or exchange information with others by speaking, writing, moving your body, or using other signals
56. an oxygen m__k *v.* to conceal something; (noun) a covering that you wear over your face to hide it
57. de___e a word *v.* to state or explain precisely the nature, scope, or meaning of something
58. ly__c poetry *n.* the words of a pop song
59. virtue and v__e *n.* wrongdoing or wicked behavior; (in the form of vice versa) with the order reversed; (as a prefix) someone with a job immediately below a particular person
60. en___e a new employee *v.* to attract and keep someone's attention and interest; to participate in or obtain services of something
61. the t__e of a song *n.* a musical composition or set of musical notes that are played or sung; (verb) to adjust or set something to a specific condition or standard
62. mu__y tomb *n.* a body of a human or animal that has been preserved, typically by being embalmed and wrapped in linen or other material

ANSWERS: 52. dimension, 53. engage, 54. specifically, 55. communicate, 56. mask, 57. define, 58. lyric, 59. vice, 60. engage, 61. tune, 62. mummy

63. built-in mic_____ne *n.* a device that converts sound into an electrical signal used for recording sounds or making the voice louder
64. pr_____ve a country's heritage *v.* to keep or maintain a particular quality, feature, etc., especially to prevent it from decaying, being damaged, or being destroyed
65. re_____ze talent *v.* to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered
66. d_m-building program *n.* a wall constructed over a river to block the flow of water, mainly used to generate energy
67. fr_____cy band *n.* an ordered array of colors into which a light beam can be split
68. si_____nt sound *adj.* producing a hissing sound, often with an "s" or "sh" sound
69. corporate af_____fe *n.* life after death, as believed in many cultures and religious traditions
70. red_____cy payment *n.* the state of being unnecessary, especially through being able to be replaced by something else
71. ch__t on my taxes *v.* to act dishonestly or unfairly to gain an advantage or to deceive someone; to break the rules or laws
72. aid re_____er *n.* the part of a phone that you hold close to your ear and mouth; a person who receives something

ANSWERS: 63. microphone, 64. preserve, 65. recognize, 66. dam, 67. frequency, 68. sibilant, 69. afterlife, 70. redundancy, 71. cheat, 72. receiver

73. en____er shortage *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
74. one____ny mapping *adj.* describing a relationship between two things or entities where one thing maps to multiple things in the other entity
75. afraid to show em____n *n.* a strong feeling such as love, anger, etc. deriving from one's situation, mood, or relationships with others
76. ar__e a case *v.* to express differing opinions or points of view, often in a heated or contentious manner; to present a case or reasoning to persuade or convince others
77. de____p a strategy *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
78. ac____ic properties of a hall *adj.* relating to sound or the sense of hearing
79. the evidence of the pr____ce *n.* the fact or state that someone or something exists, occurs, or is present
80. a tra____er of a family line *n.* a piece of equipment used for generating and sending electronic signals, especially radio or television signals
81. so__d ally *adj.* hard or firm; characterized by good substantial quality

ANSWERS: 73. engineer, 74. one-to-many, 75. emotion, 76. argue, 77. develop, 78. acoustic, 79. presence, 80. transmitter, 81. solid

82. the mil_____al reign *adj.* relating to a period of a thousand years or the year 2000; (noun) a person born between the early 1980s and the late 1990s, also called Generation Y
83. dem_____te a difference *v.* to display something or give an exhibition to an interested audience
84. no__y party *adj.* making a lot of sounds, especially loud or disruptive sound
85. human ev_____on *n.* a gradual process of transformation of living things
86. irritate the la____x *n.* an organ in the top of the throat involved in breathing, producing sound
87. nontechnical as____ts of the job *n.* one part or feature of a situation, problem, subject, etc.
88. series of exp_____nts *n.* the scientific test conducted to observe what happens and gain new knowledge
89. aud_____um annex *n.* a room or building used for concerts, plays, or other public performances
90. severe cr____c *n.* someone who expresses opinions about the quality of books, music, etc.
91. designed spe_____lly for men *adv.* only associated with or meant for one thing
92. al____e to his low origin *v.* to suggest or make reference to something indirectly
93. pr_____ve my strength *v.* to keep or maintain a particular quality, feature, etc., especially to prevent it from decaying, being damaged, or being destroyed

ANSWERS: 82. millennial, 83. demonstrate, 84. noisy, 85. evolution, 86. larynx, 87. aspect, 88. experiment, 89. auditorium, 90. critic, 91. specifically, 92. allude, 93. preserve

94. ro____y explain my idea *adv.* approximately but not precisely; with a violent manner
95. flow of el____ons *n.* a tiny particle with the negative electrical charge
96. t__e a piano *n.* a musical composition or set of musical notes that are played or sung; (verb) to adjust or set something to a specific condition or standard
97. hu____nd as a species *n.* the whole of the living human inhabitants of the earth
98. dem____ion project *n.* a display or show, often of a particular skill or product, intended to convince or persuade others
99. re____te the feeling of the 1920s *v.* to make something that existed previously happen or appear to exist again
100. the hie____ph of the bird *n.* a writing system using picture symbols, such as the one used in ancient Egypt
101. ev____e *v.* to develop gradually, or to cause the development of something or someone gradually
102. mo____n poetry *adj.* of or belonging to the present time or recent times
103. co____e fiercely *v.* to strive to achieve more success than someone or something
104. fun____al rights *adj.* forming an essential base or core from which everything else develops or is affected
105. a GPS re____er *n.* the part of a phone that you hold close to your ear and mouth; a person who receives something

ANSWERS: 94. roughly, 95. electron, 96. tune, 97. humankind, 98. demonstration, 99. recreate, 100. hieroglyph, 101. evolve, 102. modern, 103. compete, 104. fundamental, 105. receiver

106. full or _____ra *n.* a large group of musicians who play classical music together, usually with instruments such as strings, woodwinds, brass, and percussion
107. af _____fe name *n.* life after death, as believed in many cultures and religious traditions
108. ch__t in a game *v.* to act dishonestly or unfairly to gain an advantage or to deceive someone; to break the rules or laws
109. narrowing of the la___x *n.* an organ in the top of the throat involved in breathing, producing sound
110. re_____te a single country *v.* to make something that existed previously happen or appear to exist again
111. basic br__n function *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
112. thu_____orm advisory *n.* a storm with lightning and thunder, typically with heavy rain and strong gusts of wind
113. high fr_____cy *n.* an ordered array of colors into which a light beam can be split
114. mic_____ne cable *n.* a device that converts sound into an electrical signal used for recording sounds or making the voice louder
115. th___e in a society *v.* to grow vigorously; to make steady progress
116. fun_____al education *adj.* forming an essential base or core from which everything else develops or is affected

ANSWERS: 106. orchestra, 107. afterlife, 108. cheat, 109. larynx, 110. recreate, 111. brain, 112. thunderstorm, 113. frequency, 114. microphone, 115. thrive, 116. fundamental

117. a hard and re_____nt steel *adj.* able to withstand or recover quickly from difficult conditions
118. eliminate red_____cy *n.* the state of being unnecessary, especially through being able to be replaced by something else
119. si_____nt consonant *adj.* producing a hissing sound, often with an "s" or "sh" sound
120. tr_____it the disease *v.* to send or forward an electronic signal; to pass something from one person or thing to another
121. so__d employment measures *adj.* hard or firm; characterized by good substantial quality
122. ancient Egyptian mu__y *n.* a body of a human or animal that has been preserved, typically by being embalmed and wrapped in linen or other material
123. a capillary t__e *n.* a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape
124. lou_____er system *n.* an electronic device that amplifies sound, typically used to address a large audience or to play music or other audio content in public areas
125. wireless lou_____er *n.* an electronic device that amplifies sound, typically used to address a large audience or to play music or other audio content in public areas
126. exp_____nt design *n.* the scientific test conducted to observe what happens and gain new knowledge

ANSWERS: 117. resilient, 118. redundancy, 119. sibilant, 120. transmit, 121. solid, 122. mummy, 123. tube, 124. loudspeaker, 125. loudspeaker, 126. experiment

127. dem_____te mastery *v.* to display something or give an exhibition to an interested audience
128. pre-mo___n agricultural society *adj.* of or belonging to the present time or recent times
129. one_____ny messaging *adj.* describing a relationship between two things or entities where one thing maps to multiple things in the other entity
130. env_____nt affairs *n.* the natural world such as air, water, and land in which humans, animals, and plants live
131. the worst hum_____de disaster *adj.* created or produced by humans; artificial
132. or_____ra conductor *n.* a large group of musicians who play classical music together, usually with instruments such as strings, woodwinds, brass, and percussion
133. as___ts of social, political, and economic life *n.* one part or feature of a situation, problem, subject, etc.
134. th___e on pressure *v.* to grow vigorously; to make steady progress
135. mil_____al record *adj.* relating to a period of a thousand years or the year 2000; (noun) a person born between the early 1980s and the late 1990s, also called Generation Y
136. com_____te well with my advisor *v.* to share or exchange information with others by speaking, writing, moving your body, or using other signals
137. ar__w pointing *n.* a thin, pointed projectile designed to be shot from a bow; a symbol or pointer that is shaped like an arrow

ANSWERS: 127. demonstrate, 128. modern, 129. one-to-many, 130. environment, 131. human-made, 132. orchestra, 133. aspect, 134. thrive, 135. millennial, 136. communicate, 137. arrow

138. al___e to the planning *v.* to suggest or make reference to something indirectly
139. ve___l communication *adj.* expressed in spoken rather than written words
140. no___y neighbor *adj.* making a lot of sounds, especially loud or disruptive sound
141. mil_____um bottle of wine *n.* a span of 1000 years, or the 1000th anniversary (plural: millennia)
142. ru___e down the dirt track *v.* to make a low, heavy continuous sound
143. ev_____on theory *n.* a gradual process of transformation of living things
144. permanent br___n damage *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
145. ac_____ic guitar *adj.* relating to sound or the sense of hearing
146. ve___l abuse *adj.* expressed in spoken rather than written words
147. hum_____de climate change *adj.* created or produced by humans; artificial
148. beam of el_____ons *n.* a tiny particle with the negative electrical charge
149. his majestic pr_____ce *n.* the fact or state that someone or something exists, occurs, or is present
150. art_____te his position *v.* to express oneself clearly and effectively in spoken or written language

ANSWERS: 138. allude, 139. verbal, 140. noisy, 141. millennium, 142. rumble, 143. evolution, 144. brain, 145. acoustic, 146. verbal, 147. human-made, 148. electron, 149. presence, 150. articulate

Session 3: Fill in the Blanks

1. On the geological time scale, _____ has existed for a brief moment.
n. the whole of the living human inhabitants of the earth
2. Ozone is a primary _____ to protect Earth's surface from harmful UV rays.
n. any of several types of equipment or systems used to separate particles from liquids or gases or to remove specific forms of light
3. The teacher spoke through the _____ so that every student could hear the announcement.
n. an electronic device that amplifies sound, typically used to address a large audience or to play music or other audio content in public areas
4. Many multinational companies are _____ in the reconstruction of that country.
v. to attract and keep someone's attention and interest; to participate in or obtain services of something
5. Five miles is _____ similar to eight kilometers.
adv. approximately but not precisely; with a violent manner
6. The company had to let go of some employees due to _____.
n. the state of being unnecessary, especially through being able to be replaced by something else
7. She was able to _____ her argument in the debate clearly.
v. to express oneself clearly and effectively in spoken or written language
8. _____ algorithms can find ways to optimize that humans do not anticipate.
adj. relating to or denoting how living things develop or change from earlier forms

ANSWERS: 1. humankind, 2. filter, 3. loudspeaker, 4. engaged, 5. roughly, 6. redundancy, 7. articulate, 8. Evolutionary

9. The outermost _____ shell determines the chemical properties of an atom.
n. a tiny particle with the negative electrical charge
10. Some _____ are common across cultures and backgrounds.
n. a strong feeling such as love, anger, etc. deriving from one's situation, mood, or relationships with others
11. The terrorist's _____ remains unknown.
n. the fact of being who or what somebody or something is; the features, emotions, or ideas that distinguish persons from one another
12. His _____ showed highly positive results.
n. the scientific test conducted to observe what happens and gain new knowledge
13. The farmer owns a large _____ of land where he grows corn and soybeans.
n. a region of land, often with a specific purpose or use, such as farming, forestry, or mining; a bundle of nerves or a system of organs in the body
14. Eyeless fish _____ in dark caves.
v. to develop gradually, or to cause the development of something or someone gradually
15. The oscillator hunts for the correct _____.
n. an ordered array of colors into which a light beam can be split
16. The bill to increase the consumption tax had passed despite much _____ from the public.
n. the act of defending oneself from an aggressor or refusing to accept something

ANSWERS: 9. electron, 10. emotions, 11. identity, 12. experiments, 13. tract, 14. evolved, 15. frequency, 16. resistance

17. The _____ seating was filled with people waiting for the concert to begin.
n. a room or building used for concerts, plays, or other public performances
18. They worked hard to _____ the nature of their native lands.
v. to keep or maintain a particular quality, feature, etc., especially to prevent it from decaying, being damaged, or being destroyed
19. The construction outside was creating a _____ distraction from my work.
adj. making a lot of sounds, especially loud or disruptive sound
20. The break in the ____ threatened the valley.
n. a wall constructed over a river to block the flow of water, mainly used to generate energy
21. The interviewer asked him to speak into the _____.
n. a device that converts sound into an electrical signal used for recording sounds or making the voice louder
22. The politician tried to _____ the corruption.
v. to conceal something; (noun) a covering that you wear over your face to hide it
23. Cats hate dogs and _____ versa.
n. wrongdoing or wicked behavior; (in the form of vice versa) with the order reversed; (as a prefix) someone with a job immediately below a particular person
24. Our world is in the third _____.
n. a span of 1000 years, or the 1000th anniversary (plural: millennia)

ANSWERS: 17. auditorium, 18. preserve, 19. noisy, 20. dam, 21. microphone, 22. mask, 23. vice, 24. millennium

25. The well-preserved _____ was discovered in an ancient tomb in the desert.
n. a body of a human or animal that has been preserved, typically by being embalmed and wrapped in linen or other material
26. Thousands of people attended the protest _____ against the proposed policy.
n. a display or show, often of a particular skill or product, intended to convince or persuade others
27. The path to a solid online _____ necessitates a high technical ability.
n. the fact or state that someone or something exists, occurs, or is present
28. X-rays revealed a small tumor in his _____.
n. the organ inside the head that is responsible for one's movement, thought, memory, and feeling
29. This ad campaign is aimed _____ at young women.
adv. only associated with or meant for one thing
30. He _____ to the problem but did not mention it directly.
v. to suggest or make reference to something indirectly
31. Dolphins use sound to _____ with each other.
v. to share or exchange information with others by speaking, writing, moving your body, or using other signals
32. Overall _____ are approximately 400x200mm.
n. a measurable extent of a particular kind, such as width, height, or length

ANSWERS: 25. mummy, 26. demonstration, 27. presence, 28. brain, 29. specifically, 30. alluded, 31. communicate, 32. dimensions

33. This substance acts as a neural _____ substance.
- n.* a piece of equipment used for generating and sending electronic signals, especially radio or television signals
34. Earth's ecosystems are greatly affected by _____ changes in climate.
- adj.* relating to a period of a thousand years or the year 2000; (noun) a person born between the early 1980s and the late 1990s, also called Generation Y
35. The roaring _____ was so loud that it woke me from sleep.
- n.* the loud, deep sound made by air expanding along the path of a bolt of lightning; a deep, prolonged loud noise
36. Their headquarters are in a _____ skyscraper.
- adj.* of or belonging to the present time or recent times
37. The audio engineer applied a _____ filter to remove background noise from the recording.
- adj.* describing a filter or circuit that allows high-frequency signals to pass through while attenuating or cutting off low-frequency signals
38. The couple began to _____ over which restaurant to go to for dinner.
- v.* to express differing opinions or points of view, often in a heated or contentious manner; to present a case or reasoning to persuade or convince others
39. The band played a beautiful _____ on their instruments.
- n.* a musical composition or set of musical notes that are played or sung; (verb) to adjust or set something to a specific condition or standard
40. The accomplished _____ will give two more performances this week.
- n.* a large group of musicians who play classical music together, usually with instruments such as strings, woodwinds, brass, and percussion

ANSWERS: 33. transmitter, 34. millennial-scale, 35. thunder, 36. modern, 37. high-pass, 38. argue, 39. tune, 40. orchestra

41. Please pronounce your name slowly and emphasize the _____ sounds.
- n.* a speech sound pronounced with an open vocal tract, typically made by vibrating the vocal cords and without any constriction or obstruction of airflow in the lungs or mouth
42. How can you _____ that the earth is a sphere?
- v.* to display something or give an exhibition to an interested audience
43. The _____ will repair my telephone tomorrow morning.
- n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
44. Even though he knew it was wrong, he _____ on the exam.
- v.* to act dishonestly or unfairly to gain an advantage or to deceive someone; to break the rules or laws
45. The _____ of water is called ice.
- adj.* hard or firm; characterized by good substantial quality
46. Delivery companies often require the _____ signature to certify the completion of package delivery.
- n.* the part of a phone that you hold close to your ear and mouth; a person who receives something
47. Parents often _____ their characteristics to their children.
- v.* to send or forward an electronic signal; to pass something from one person or thing to another
48. She _____ the atmosphere of the pre-war age with her stage setting.
- v.* to make something that existed previously happen or appear to exist again

ANSWERS: 41. vowel, 42. demonstrate, 43. engineer, 44. cheated, 45. solid-state, 46. receiver's, 47. transmit, 48. recreated

49. Human behavior has _____ characteristics.

adj. forming an essential base or core from which everything else develops or is affected

50. To advance this discussion, we must _____ "success" rigorously.

v. to state or explain precisely the nature, scope, or meaning of something

51. You must _____ with others to obtain this position.

v. to strive to achieve more success than someone or something

52. Each beautiful _____ represents either an idea or a sound.

n. a writing system using picture symbols, such as the one used in ancient Egypt

53. The archer aimed his _____ carefully at the target.

n. a thin, pointed projectile designed to be shot from a bow; a symbol or pointer that is shaped like an arrow

54. His professional experience includes all _____ of media production.

n. one part or feature of a situation, problem, subject, etc.

55. She is a _____ person and has always bounced back from setbacks.

adj. able to withstand or recover quickly from difficult conditions

56. The _____ relationship between a parent database and child tables can lead to complex data management.

adj. describing a relationship between two things or entities where one thing maps to multiple things in the other entity

57. The forecast called for a chance of _____ in the afternoon.

n. a storm with lightning and thunder, typically with heavy rain and strong gusts of wind

ANSWERS: 49. fundamental, 50. define, 51. compete, 52. hieroglyph, 53. arrow, 54. aspects, 55. resilient, 56. one-to-many, 57. thunderstorms

58. It's important to _____ your strengths and weaknesses.
v. to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered
59. The _____ train was packed with commuters during rush hour.
n. a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape
60. He has _____ exercising because of a back injury sustained in an accident.
n. a condition or state that causes problems
61. The belief in an _____ comforted those mourning the loss of their loved ones.
n. life after death, as believed in many cultures and religious traditions
62. Advocates for legal reform hear less harsh words from their _____.
n. someone who expresses opinions about the quality of books, music, etc.
63. I always carry a backup _____ in case my phone runs out of battery.
n. a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
64. The thunder _____ in the distance.
v. to make a low, heavy continuous sound
65. The ground acts as an _____ barrier against outside sounds.
adj. relating to sound or the sense of hearing

ANSWERS: 58. recognize, 59. tube, 60. difficulty, 61. afterlife, 62. critics, 63. device, 64. rumbled, 65. acoustic

66. She loves going to the _____ house and hearing the beautiful music.
n. a drama set to music, in which the words are sung rather than spoken
67. The candidate must have excellent _____ skills.
adj. expressed in spoken rather than written words
68. Without investment, a business cannot _____.
v. to grow vigorously; to make steady progress
69. Smoking significantly increases the risk of _____ cancer.
n. an organ in the top of the throat involved in breathing, producing sound
70. They study the _____ of the universe.
n. a gradual process of transformation of living things
71. He embedded the strong will in this _____.
n. the words of a pop song
72. The bridge is a _____ structure and was built to span the river.
adj. created or produced by humans; artificial
73. We must _____ a new system to streamline our workflow and increase efficiency.
v. to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
74. Every human is responsible for taking care of the Earth's _____.
n. the natural world such as air, water, and land in which humans, animals, and plants live

ANSWERS: 66. opera, 67. verbal, 68. thrive, 69. larynx, 70. evolution, 71. lyric, 72. human-made, 73. develop, 74. environment

75. The singer's _____ voice added a unique sound to the song.

adj. producing a hissing sound, often with an "s" or "sh" sound

ANSWERS: 75. sibilant