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Vocabulary Builder Reference from...

Mark Changizi: Why do we see illusions? | TED Talk
https://www.ted.com/talks/mark_changizi_why_do_we_see_illusions

All Words

IMPORTANT

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Session 1: Word List

illusion

n. a false idea or belief, especially about somebody or about a situation

synonym: delusion, fallacy, magic trick

(1) optical **illusion**, (2) the **illusion** of being in the forest

He could no longer tell the difference between **illusion** and reality.

hypothesis

n. a proposed idea or explanation that is based on a few known facts but has not yet been proven to be true or accurate

synonym: assumption, conjecture, theory

(1) test my **hypothesis**, (2) a bold **hypothesis**

This evidence supports the big-bang **hypothesis**.

stand-in

n. a person or thing that acts as a substitute, replacement, or temporary assistant for someone or something else; a double or understudy for a performer or actor

synonym: substitute, replacement, understudy

(1) **stand-in** teacher, (2) use a **stand-in** in an exam

The company hired a **stand-in** for the CEO for the shareholder meeting.

parallel

adj. being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple

operations

synonym : aligned, side-by-side, similar

(1) a **parallel** case, (2) **parallel** processing

He walked a road **parallel** to the railroad.

perceive

v. to become aware or conscious of something through the senses

synonym : sense, discern, feel

(1) **perceive** a threat, (2) **perceive** light

Australia is widely **perceived** as having low levels of corruption.

bow

v. to bend your knee or body, or lower your head; (noun) a weapon made of a curved piece of wood or other flexible material, strung with a cord and used to shoot arrows

synonym : bend, curve, arch

(1) **bow** and greet, (2) a **bow** wave

She **bowed** to the audience after her performance.

outward

adj. relating to the external appearance or surface of something; visible

synonym : external, surface, exterior

(1) an **outward** journey, (2) **outward** cheerfulness

The **outward** appearance of the building was impressive, but the inside was in dire need of repairs.

radial

adj. of or relating to rays or the radii of a circle; spreading out from a central point

synonym : concentric, central, spoke-like

(1) **radial** symmetry, (2) in a **radial** direction

The **radial** design of the wheel allows for maximum strength and stability.

visual

adj. relating to seeing or sight

synonym : optical, graphical, visible

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

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

remarkable

adj. worthy of attention because unusual or special

synonym : outstanding, exceptional, extraordinary

(1) **remarkable** achievement, (2) the **remarkable** breadth of knowledge

The election was a **remarkable** success for the Whigs.

stimulus

n. something that causes growth or arouses action

synonym : incitement, inspiration, motivation

(1) a response to a **stimulus**, (2) economic **stimulus**

This book provides children with ideas and a **stimulus** for outside recreation.

bunch

n. a grouping of several similar things which are growing or fastened together

synonym : group, assemblage, bundle

(1) a **bunch** of trees, (2) a **bunch** of schoolgirls

One bad apple spoils the whole **bunch**.

straight

adj. extending or moving in one direction without bending or curving; having no deviations

synonym : linear, honest, consecutive

(1) a **straight** line, (2) **straight** for two months

He was sick for five **straight** days.

complicated

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

synonym : complex, convoluted, intricate

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

complicated

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

universe

n. everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy

synonym : cosmos, macrocosm

(1) theory of the **universe**, (2) expansion of the **universe**
The **universe** is about 13.8 billion years old.

render

v. to bring someone or something into a particular state; to provide something such as service, help, etc.

synonym: deliver, give, provide

(1) **render** an assessment, (2) **render** the contract void

The jury must **render** a decision on this complex case.

incredibly

adv. in a way that is very difficult to believe; exceedingly or extremely

synonym: enormously, exceptionally, extraordinarily

(1) **incredibly** cheerful character, (2) get **incredibly** insecure

Several cities are experiencing **incredibly** high unemployment rates.

quest

n. a long or challenging search for something

synonym: exploration, inquisition, pursuit

(1) the **quest** for truth, (2) on a **quest** for happiness

That adventurer traveled in **quest** of buried treasure.

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**.

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.

handle

v. to deal with a situation, problem, or strong emotion

synonym: control, manage, deal with

(1) **handle** a precious object, (2) **handled** the incident
We all should learn how to **handle** stress.

encounter

v. to face something, particularly something unpleasant or difficult, while attempting to do something else; to meet, especially unexpectedly

synonym: meet, run into, come across

(1) **encounter** a crisis, (2) **encounter** a storm

I'm prepared to **encounter** challenges throughout this adventure.

odd

adj. strange or unexpected; not divisible by two

synonym: strange, bizarre, abnormal

(1) in an **odd** way, (2) **odd** behavior

His grandfather was an **odd** man.

optic

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

synonym: visual, ocular, visualized

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

The campaign ad was designed with bright colors and bold fonts for maximum **optic** impact.

enterprise

n. a business or company; a purposeful or industrious undertaking, especially one that requires effort

synonym: business, company, industry

(1) undertake an **enterprise**, (2) his business **enterprise**

A growing **enterprise** requires a bold leader.

warp

v. to twist or bend out of shape, especially as a result of being heated; to distort or twist the meaning or sense of something

synonym: twist, distort, deform

(1) **warp** under pressure, (2) become **warped**

The ship's hull was **warped** from years of use in rough seas.

- trail** *n.* a path or track roughly through a countryside, mountain, or forest area, often made or used for a particular purpose; (verb) to lag or linger behind
synonym : footpath, track, course
(1) a warm **trail**, (2) follow the **trail**
The storm left a **trail** of destruction behind it.
- blur** *n.* a faint or indistinct image or sound; something that is not clear or distinct; (verb) to become unclear; to lose clear vision
synonym : smudge, smear, fuzz
(1) **blur** image, (2) motion **blur**
The camera's focus was off, and the image was a **blur** of colors and shapes.
- retina** *n.* the innermost light-sensitive membrane covering the back wall of the eyeball
(1) **retinal** cells, (2) **retina** scanner
Damage to the **retina** may play a role in the development of glaucoma.
- activate** *v.* make something start working, more active or dynamic
synonym : mobilize, stimulate, initiate
(1) **activate** a receptor, (2) **activate** a motor
You must **activate** the software with a 16-digit key before you can use it.
- neuron** *n.* a cell that is specialized to carry information within the brain and between the brain and other parts of the body
synonym : nerve cell
(1) excite the **neurons**, (2) **neuron** cell body
Our body transfers information along each **neuron** using an electrical impulse.
- row** *n.* an arrangement of objects or people side by side in a line; (verb) to propel a boat through the water using oars
synonym : line, sequence, layer

(1) criminal on death **row**, (2) a **row** of cherry trees
He was the leader of the demonstrators and spoke out against the war in the front **row**.

cartoon

n. a simple drawing depicting a humorous or critical situation, often accompanied by a caption
synonym: illustration, drawing, caricature

(1) **cartoon** character, (2) **cartoon** industry
He spent his afternoon watching **cartoon** movies on TV.

moving

adj. causing strong emotions or feelings, especially sadness or sympathy

synonym: emotional, poignant, touching

(1) **moving** experience, (2) **moving** ceremony
His **moving** speech about his struggles with addiction brought tears to the audience's eyes.

fixate

v. to focus one's attention or become overly obsessed with someone or something; to become mentally obsessed or preoccupied with a particular idea, thought, or image

synonym: obsess, fix, concentrate

(1) **fixate** on a problem, (2) **fixate** on a picture
She tends to **fixate** on small details, often losing sight of the bigger picture.

snapshot

n. an informal photograph, especially one taken quickly

synonym: photo, picture, print

(1) take a **snapshot**, (2) developed **snapshot**
There were framed **snapshots** of family and friends in her room.

weird

adj. extraordinary, unexpected, or difficult to explain

synonym: bizarre, creepy, peculiar

(1) a **weird** dress, (2) the state of being **weird**
My computer has been acting **weird** recently.

ping

v. to make a high-pitched, ringing sound; to send a brief electronic message or signal to another computer or device to check its availability or connection status

synonym : knock, sound, ring

(1) **ping** me when you have arrived, (2) **ping** him with updates

I can **ping** my friend's computer to see if it's online.

immediately

adv. now or without delay

synonym : directly, instantly, promptly

(1) **immediately** recall a product, (2) write him an answer **immediately**

A suspension order from the court is effective **immediately**.

perception

n. a belief, opinion, or image you have based on how you regard, understand, or interpret something; the ability to see, hear, or notice something through the senses

synonym : understanding, idea, awareness

(1) keen **perception**, (2) **perception** of a stimulus

He is a man admired for the depth of his **perception**.

norm

n. something that is regarded as usual, typical, or standard

synonym : criterion, mean, standard

(1) **norm** of action, (2) cultural **norm**

The systems we have developed has accepted as industry **norms**.

meter

n. a device used to measure the amount of a particular substance or attribute, such as length, volume, or time; (prosody) the accent in a metrical foot of verse

synonym : gauge, indicator, rhythm

(1) a gas **meter**, (2) poetic **meter**

The **meter** on the wall showed that the room was three meters long.

fairly

adv. to a certain extent or degree; without favoring one party in an evenhanded manner

synonym : moderately, reasonably, pretty

(1) **fairly** accurate, (2) have a **fairly** clear view

He deals **fairly** with his employees.

centimeter

n. a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter

(1) **centimeter** measurement, (2) thirty **centimeters** tall

The room was only one **centimeter** wider than the piano, making it a tight fit.

delay

v. to cause something to happen at a later time than originally intended or expected

synonym : block, adjourn, detain

(1) **delay** a flight three hours, (2) **delay** the new project

We **delayed** the payment because of an incorrect invoice.

bump

v. to hit or knock against something hard, often with a dull sound; to meet with by accident

synonym : collide, hit, jolt

(1) **bump** against a wall, (2) **bump** up prices

She accidentally **bumped** into him in the crowded room.

passee

adj. no longer fashionable or current; outdated; considered to be old-fashioned or out of date

synonym : outdated, old-fashioned, antique

(1) **passee** entertainment, (2) **passee** trend

Bell-bottom jeans, once considered **passee** fashion, have made a surprising comeback in recent years.

generate

v. to produce or create something; to make offspring by reproduction

synonym : create, yield, produce

(1) **generate** more electricity, (2) **generate** \$100 a month

The economic stimulation program would **generate** a lot of new jobs.

fancier

n. a person who is interested in or particularly fond of a particular thing

synonym: enthusiast, aficionado, connoisseur

(1) a bird **fancier**, (2) known as a **fancier** of arts

He is a wine **fancier** and can tell the difference between red and white just by smelling it.

passive

adj. characterized by a lack of activity or initiative; not actively participating or engaging in something; marked by a tendency to accept things without resistance or opposition

synonym: inactive, lethargic, apathetic

(1) **passive** response, (2) **passive** vocabulary

The **passive** approach taken by the government towards climate change is concerning.

mechanism

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

synonym: means, method, system

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

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

compensate

v. to make up for a loss, injury, or inconvenience by giving something of value

synonym: reimburse, pay, recompense

(1) **compensate** a loss, (2) **compensate** for a car accident

The company offered to **compensate** the employees for the overtime they worked.

swath

n. a strip of land, especially a long, narrow one; a large amount or quantity of something

synonym: strip, band, fodder

(1) a large **swath** of territory, (2) a **swath** of green grass

The charity organization has helped to provide education to a

vast **swath** of the population.

vertical

adj. upright or perpendicular to a horizontal surface or line
synonym : perpendicular, upright, plumb

(1) **vertical** takeoff, (2) **vertical** axis

The ladder leaned against the **vertical** surface of the building.

optical

adj. of or relating to or light or the ability to see; (noun) the science of light and vision, and to instruments and techniques used in the study and application of light

synonym : visual, ocular

(1) new **optical** glasses, (2) **optical** fiber

The **optical** illusion made it appear like the building was floating in midair.

doorway

n. an opening in a wall for a door to fit into

synonym : entrance, portal, gateway

(1) a wide **doorway**, (2) **doorway** to success

He leaned against the **doorway**, waiting for her to come home.

cathedral

n. the main Christian church of a bishop's diocese, which is often the largest and most important church in the area

synonym : church, basilica, temple

(1) **cathedral** school, (2) **cathedral** choir

The **cathedral's** stained glass windows depicted scenes from the Bible.

concrete

adj. existing in a physical or material form rather than an abstract one; based on facts rather than ideas or guesses; made of or covered with cement

synonym : actual, factual, hardened

(1) a **concrete** noun, (2) **concrete** examples

The president asked for a more **concrete** plan.

railroad

n. metal tracks laid with rails on which trains run; a system of tracks with the trains operated by an organization

synonym: railway, track, railway system

(1) coast-to-coast **railroad**, (2) **railroad** industry

The town was founded in the 19th century as a stop on the **railroad**, and it grew rapidly as a result.

geometry

n. the area of pure mathematics that deals with the points, lines, curves, and surfaces

(1) Euclidean **geometry**, (2) spherical **geometry**

The mathematician pioneered fractal **geometry**.

cue

n. a signal, gesture, or action that provides information or direction for someone else to act or respond; a reminder or prompt for someone to do something

synonym: signal, sign, hint

(1) **cue** card, (2) visual **cue**

The director gave the actor a **cue** to begin the scene.

static

adj. not moving or not capable of moving, not changing or not capable of changing

synonym: immobile, unchanging, fixed

(1) **static** electricity, (2) **static** website

The **static** image on the screen took a lot of work to make out.

stab

v. to cause harm with a sharp, pointed object, such as a knife

synonym: poke, thrust, jab

(1) **stab** at the enemy with a knife, (2) **stab** in the chest

He was **stabbed** many times with scissors.

motto

n. a phrase or slogan that expresses a guiding principle or goal

synonym: slogan, catchphrase, phrase

(1) the **motto** for safe traffic, (2) company **motto**

The company's **motto** is "Innovation and Service," which is

reflected in its products and customer support.

loom

v. to appear or take shape as a large, especially in a frightening way

synonym: appear, come on, overshadow

(1) **loom** over the global economy, (2) **loom** on the horizon
The issue of divorce **loomed** large in his mind.

probable

adj. likely to happen or likely to be true

synonym: likely, possible, potential

(1) **probable** outcome, (2) **probable** cause of a fire
It seems **probable** that he has forgotten our scheduled meeting.

background

n. the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem

synonym: ground, experience, backdrop

(1) a **background** color, (2) a criminal **background**
The company's hiring criteria emphasize personality, not a person's **background**.

shift

n. a slight transition in position, direction, or trend

synonym: transition, change, modification

(1) Doppler **shift**, (2) major paradigm **shift**
Could you help me **shift** some furniture?

Session 2: Spelling

- | | |
|----------------------------------|--|
| 1. test my hyp_____is | <i>n.</i> a proposed idea or explanation that is based on a few known facts but has not yet been proven to be true or accurate |
| 2. ca_____n character | <i>n.</i> a simple drawing depicting a humorous or critical situation, often accompanied by a caption |
| 3. ge_____te \$100 a month | <i>v.</i> to produce or create something; to make offspring by reproduction |
| 4. l___m over the global economy | <i>v.</i> to appear or take shape as a large, especially in a frightening way |
| 5. an ou_____d journey | <i>adj.</i> relating to the external appearance or surface of something; visible |
| 6. st_____ht for two months | <i>adj.</i> extending or moving in one direction without bending or curving; having no deviations |
| 7. the mo___o for safe traffic | <i>n.</i> a phrase or slogan that expresses a guiding principle or goal |
| 8. mo_____g experience | <i>adj.</i> causing strong emotions or feelings, especially sadness or sympathy |
| 9. get inc_____ly insecure | <i>adv.</i> in a way that is very difficult to believe; exceedingly or extremely |
| 10. ve_____al takeoff | <i>adj.</i> upright or perpendicular to a horizontal surface or line |
| 11. pa___e trend | <i>adj.</i> no longer fashionable or current; outdated; considered to be old-fashioned or out of date |

ANSWERS: 1. hypothesis, 2. cartoon, 3. generate, 4. loom, 5. outward, 6. straight, 7. motto, 8. moving, 9. incredibly, 10. vertical, 11. passe

12. a criminal bac_____nd *n.* the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem
13. the il_____on of being in the forest *n.* a false idea or belief, especially about somebody or about a situation
14. ca_____n industry *n.* a simple drawing depicting a humorous or critical situation, often accompanied by a caption
15. take a sn_____ot *n.* an informal photograph, especially one taken quickly
16. a bold hyp_____is *n.* a proposed idea or explanation that is based on a few known facts but has not yet been proven to be true or accurate
17. o_d behavior *adj.* strange or unexpected; not divisible by two
18. pa_____e vocabulary *adj.* characterized by a lack of activity or initiative; not actively participating or engaging in something; marked by a tendency to accept things without resistance or opposition
19. p__g him with updates *v.* to make a high-pitched, ringing sound; to send a brief electronic message or signal to another computer or device to check its availability or connection status
20. a sw__h of green grass *n.* a strip of land, especially a long, narrow one; a large amount or quantity of something

ANSWERS: 12. background, 13. illusion, 14. cartoon, 15. snapshot, 16. hypothesis, 17. odd, 18. passive, 19. ping, 20. swath

21. op__c illusion *adj.* relating to vision or the eyes; relating to or involving light or optics
22. a we__d dress *adj.* extraordinary, unexpected, or difficult to explain
23. a co____te noun *adj.* existing in a physical or material form rather than an abstract one; based on facts rather than ideas or guesses; made of or covered with cement
24. a com_____ed process *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
25. rem_____le achievement *adj.* worthy of attention because unusual or special
26. pr_____le outcome *adj.* likely to happen or likely to be true
27. a bird fa____r *n.* a person who is interested in or particularly fond of a particular thing
28. st___c electricity *adj.* not moving or not capable of moving, not changing or not capable of changing
29. p__g me when you have arrived *v.* to make a high-pitched, ringing sound; to send a brief electronic message or signal to another computer or device to check its availability or connection status
30. a st_____ht line *adj.* extending or moving in one direction without bending or curving; having no deviations
31. a gas me__r *n.* a device used to measure the amount of a particular substance or attribute, such as length, volume, or time; (prosody) the accent in a metrical foot of verse

ANSWERS: 21. optic, 22. weird, 23. concrete, 24. complicated, 25. remarkable, 26. probable, 27. fancier, 28. static, 29. ping, 30. straight, 31. meter

32. Doppler sh__t *n.* a slight transition in position, direction, or trend
33. poetic me__r *n.* a device used to measure the amount of a particular substance or attribute, such as length, volume, or time; (prosody) the accent in a metrical foot of verse
34. ac____te a receptor *v.* make something start working, more active or dynamic
35. de__y the new project *v.* to cause something to happen at a later time than originally intended or expected
36. st____in teacher *n.* a person or thing that acts as a substitute, replacement, or temporary assistant for someone or something else; a double or understudy for a performer or actor
37. ne____n cell body *n.* a cell that is specialized to carry information within the brain and between the brain and other parts of the body
38. op____l fiber *adj.* of or relating to or light or the ability to see; (noun) the science of light and vision, and to instruments and techniques used in the study and application of light
39. b__r image *n.* a faint or indistinct image or sound; something that is not clear or distinct; (verb) to become unclear; to lose clear vision

ANSWERS: 32. shift, 33. meter, 34. activate, 35. delay, 36. stand-in, 37. neuron, 38. optical, 39. blur

40. the me_____sm for DNA replication *n.* a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction
41. inc_____ly cheerful character *adv.* in a way that is very difficult to believe; exceedingly or extremely
42. defense me_____sm *n.* a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction
43. re___r an assessment *v.* to bring someone or something into a particular state; to provide something such as service, help, etc.
44. n__m of action *n.* something that is regarded as usual, typical, or standard
45. pe_____ve light *v.* to become aware or conscious of something through the senses
46. st___c website *adj.* not moving or not capable of moving, not changing or not capable of changing
47. de__y a flight three hours *v.* to cause something to happen at a later time than originally intended or expected
48. in a ra___l direction *adj.* of or relating to rays or the radii of a circle; spreading out from a central point
49. l__m on the horizon *v.* to appear or take shape as a large, especially in a frightening way
50. a response to a st_____us *n.* something that causes growth or arouses action
51. the qu__t for truth *n.* a long or challenging search for something

ANSWERS: 40. mechanism, 41. incredibly, 42. mechanism, 43. render, 44. norm, 45. perceive, 46. static, 47. delay, 48. radial, 49. loom, 50. stimulus, 51. quest

52. s__b at the enemy with a knife *v.* to cause harm with a sharp, pointed object, such as a knife
53. ev___e over the past decade *v.* to develop gradually, or to cause the development of something or someone gradually
54. the state of being we__d *adj.* extraordinary, unexpected, or difficult to explain
55. keen per_____on *n.* a belief, opinion, or image you have based on how you regard, understand, or interpret something; the ability to see, hear, or notice something through the senses
56. visual c_e *n.* a signal, gesture, or action that provides information or direction for someone else to act or respond; a reminder or prompt for someone to do something
57. ha___ed the incident *v.* to deal with a situation, problem, or strong emotion
58. optical il_____on *n.* a false idea or belief, especially about somebody or about a situation
59. vi___l navigation *adj.* relating to seeing or sight
60. his business ent_____se *n.* a business or company; a purposeful or industrious undertaking, especially one that requires effort
61. b__p against a wall *v.* to hit or knock against something hard, often with a dull sound; to meet with by accident
62. a bu__h of schoolgirls *n.* a grouping of several similar things which are growing or fastened together

ANSWERS: 52. stab, 53. evolve, 54. weird, 55. perception, 56. cue, 57. handle, 58. illusion, 59. visual, 60. enterprise, 61. bump, 62. bunch

63. ha___e a precious object *v.* to deal with a situation, problem, or strong emotion
64. known as a fa____r of arts *n.* a person who is interested in or particularly fond of a particular thing
65. on a qu__t for happiness *n.* a long or challenging search for something
66. use a st____in in an exam *n.* a person or thing that acts as a substitute, replacement, or temporary assistant for someone or something else; a double or understudy for a performer or actor
67. thirty cen____ers tall *n.* a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
68. do____y to success *n.* an opening in a wall for a door to fit into
69. a r_w of cherry trees *n.* an arrangement of objects or people side by side in a line; (verb) to propel a boat through the water using oars
70. developed sn____ot *n.* an informal photograph, especially one taken quickly
71. fi___e on a picture *v.* to focus one's attention or become overly obsessed with someone or something; to become mentally obsessed or preoccupied with a particular idea, thought, or image
72. the rem____le breadth of knowledge *adj.* worthy of attention because unusual or special
73. re___r the contract void *v.* to bring someone or something into a particular state; to provide something such as service, help, etc.

ANSWERS: 63. handle, 64. fancier, 65. quest, 66. stand-in, 67. centimeter, 68. doorway, 69. row, 70. snapshot, 71. fixate, 72. remarkable, 73. render

74. ac____te a motor *v.* make something start working, more active or dynamic
75. become increasingly com_____ed *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
76. mo____g ceremony *adj.* causing strong emotions or feelings, especially sadness or sympathy
77. a b_w wave *v.* to bend your knee or body, or lower your head; (noun) a weapon made of a curved piece of wood or other flexible material, strung with a cord and used to shoot arrows
78. ca_____al choir *n.* the main Christian church of a bishop's diocese, which is often the largest and most important church in the area
79. Euclidean ge____ry *n.* the area of pure mathematics that deals with the points, lines, curves, and surfaces
80. field of vi____l arts *adj.* relating to seeing or sight
81. ev____e *v.* to develop gradually, or to cause the development of something or someone gradually
82. follow the tr__l *n.* a path or track roughly through a countryside, mountain, or forest area, often made or used for a particular purpose; (verb) to lag or linger behind
83. excite the ne____ns *n.* a cell that is specialized to carry information within the brain and between the brain and other parts of the body

ANSWERS: 74. activate, 75. complicated, 76. moving, 77. bow, 78. cathedral, 79. geometry, 80. visual, 81. evolve, 82. trail, 83. neuron

84. spherical ge____ry *n.* the area of pure mathematics that deals with the points, lines, curves, and surfaces
85. ve____al axis *adj.* upright or perpendicular to a horizontal surface or line
86. a bac_____nd color *n.* the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem
87. write him an answer imm_____ly *adv.* now or without delay
88. ou____d cheerfulness *adj.* relating to the external appearance or surface of something; visible
89. op__c fiber *adj.* relating to vision or the eyes; relating to or involving light or optics
90. per_____on of a stimulus *n.* a belief, opinion, or image you have based on how you regard, understand, or interpret something; the ability to see, hear, or notice something through the senses
91. en_____er a crisis *v.* to face something, particularly something unpleasant or difficult, while attempting to do something else; to meet, especially unexpectedly
92. motion b__r *n.* a faint or indistinct image or sound; something that is not clear or distinct; (verb) to become unclear; to lose clear vision
93. coast-to-coast ra____ad *n.* metal tracks laid with rails on which trains run; a system of tracks with the trains operated by an organization

ANSWERS: 84. geometry, 85. vertical, 86. background, 87. immediately, 88. outward, 89. optic, 90. perception, 91. encounter, 92. blur, 93. railroad

94. ca_____al school *n.* the main Christian church of a bishop's diocese, which is often the largest and most important church in the area
95. cultural n__m *n.* something that is regarded as usual, typical, or standard
96. basic br__n function *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
97. a pa_____el case *adj.* being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations
98. en_____er a storm *v.* to face something, particularly something unpleasant or difficult, while attempting to do something else; to meet, especially unexpectedly
99. cen_____er measurement *n.* a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
100. w__p under pressure *v.* to twist or bend out of shape, especially as a result of being heated; to distort or twist the meaning or sense of something
101. become w__ped *v.* to twist or bend out of shape, especially as a result of being heated; to distort or twist the meaning or sense of something
102. criminal on death r_w *n.* an arrangement of objects or people side by side in a line; (verb) to propel a boat through the water using oars

ANSWERS: 94. cathedral, 95. norm, 96. brain, 97. parallel, 98. encounter, 99. centimeter, 100. warp, 101. warp, 102. row

103. undertake an ent_____se *n.* a business or company; a purposeful or industrious undertaking, especially one that requires effort
104. c_e card *n.* a signal, gesture, or action that provides information or direction for someone else to act or respond; a reminder or prompt for someone to do something
105. pr_____le cause of a fire *adj.* likely to happen or likely to be true
106. ge_____te more electricity *v.* to produce or create something; to make offspring by reproduction
107. economic st_____us *n.* something that causes growth or arouses action
108. theory of the un_____se *n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
109. fi_____e on a problem *v.* to focus one's attention or become overly obsessed with someone or something; to become mentally obsessed or preoccupied with a particular idea, thought, or image
110. com_____te a loss *v.* to make up for a loss, injury, or inconvenience by giving something of value
111. pa__e entertainment *adj.* no longer fashionable or current; outdated; considered to be old-fashioned or out of date
112. a warm tr__l *n.* a path or track roughly through a countryside, mountain, or forest area, often made or used for a particular purpose; (verb) to lag or linger behind

ANSWERS: 103. enterprise, 104. cue, 105. probable, 106. generate, 107. stimulus, 108. universe, 109. fixate, 110. compensate, 111. passe, 112. trail

113. a bu__h of trees *n.* a grouping of several similar things which are growing or fastened together
114. ra____ad industry *n.* metal tracks laid with rails on which trains run; a system of tracks with the trains operated by an organization
115. com_____te for a car accident *v.* to make up for a loss, injury, or inconvenience by giving something of value
116. b_w and greet *v.* to bend your knee or body, or lower your head; (noun) a weapon made of a curved piece of wood or other flexible material, strung with a cord and used to shoot arrows
117. a wide do____y *n.* an opening in a wall for a door to fit into
118. pa____el processing *adj.* being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations
119. major paradigm sh__t *n.* a slight transition in position, direction, or trend
120. imm_____ly recall a product *adv.* now or without delay
121. a large sw__h of territory *n.* a strip of land, especially a long, narrow one; a large amount or quantity of something
122. re___a scanner *n.* the innermost light-sensitive membrane covering the back wall of the eyeball
123. permanent br__n damage *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling

ANSWERS: 113. bunch, 114. railroad, 115. compensate, 116. bow, 117. doorway, 118. parallel, 119. shift, 120. immediately, 121. swath, 122. retina, 123. brain

124. b__p up prices *v.* to hit or knock against something hard, often with a dull sound; to meet with by accident
125. ra___l symmetry *adj.* of or relating to rays or the radii of a circle; spreading out from a central point
126. s__b in the chest *v.* to cause harm with a sharp, pointed object, such as a knife
127. have a fa___y clear view *adv.* to a certain extent or degree; without favoring one party in an evenhanded manner
128. fa___y accurate *adv.* to a certain extent or degree; without favoring one party in an evenhanded manner
129. expansion of the un_____se *n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
130. pa_____e response *adj.* characterized by a lack of activity or initiative; not actively participating or engaging in something; marked by a tendency to accept things without resistance or opposition
131. re___al cells *n.* the innermost light-sensitive membrane covering the back wall of the eyeball
132. in an o_d way *adj.* strange or unexpected; not divisible by two
133. pe_____ve a threat *v.* to become aware or conscious of something through the senses
134. new op_____l glasses *adj.* of or relating to or light or the ability to see; (noun) the science of light and vision, and to instruments and techniques used in the study and application of light

ANSWERS: 124. bump, 125. radial, 126. stab, 127. fairly, 128. fairly, 129. universe, 130. passive, 131. retina, 132. odd, 133. perceive, 134. optical

135. co____te examples

adj. existing in a physical or material form rather than an abstract one; based on facts rather than ideas or guesses; made of or covered with cement

136. company mo__o

n. a phrase or slogan that expresses a guiding principle or goal

ANSWERS: 135. concrete, 136. motto

Session 3: Fill in the Blanks

1. The election was a _____ success for the Whigs.
adj. worthy of attention because unusual or special

2. The company's hiring criteria emphasize personality, not a person's _____.
n. the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem

3. He was sick for five _____ days.
adj. extending or moving in one direction without bending or curving; having no deviations

4. He spent his afternoon watching _____ movies on TV.
n. a simple drawing depicting a humorous or critical situation, often accompanied by a caption

5. Bell-bottom jeans, once considered _____ fashion, have made a surprising comeback in recent years.
adj. no longer fashionable or current; outdated; considered to be old-fashioned or out of date

6. The _____ stained glass windows depicted scenes from the Bible.
n. the main Christian church of a bishop's diocese, which is often the largest and most important church in the area

7. There were framed _____ of family and friends in her room.
n. an informal photograph, especially one taken quickly

ANSWERS: 1. remarkable, 2. background, 3. straight, 4. cartoon, 5. passe, 6. cathedral's, 7. snapshots

8. We _____ the payment because of an incorrect invoice.
- v.* to cause something to happen at a later time than originally intended or expected
9. The mathematician pioneered fractal _____.
- n.* the area of pure mathematics that deals with the points, lines, curves, and surfaces
10. One bad apple spoils the whole _____.
- n.* a grouping of several similar things which are growing or fastened together
11. He was _____ many times with scissors.
- v.* to cause harm with a sharp, pointed object, such as a knife
12. I can _____ my friend's computer to see if it's online.
- v.* to make a high-pitched, ringing sound; to send a brief electronic message or signal to another computer or device to check its availability or connection status
13. He discovered unique _____ for photochemical reactions.
- n.* a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction
14. He was the leader of the demonstrators and spoke out against the war in the front _____.
- n.* an arrangement of objects or people side by side in a line; (verb) to propel a boat through the water using oars
15. This book provides children with ideas and a _____ for outside recreation.
- n.* something that causes growth or arouses action

ANSWERS: 8. delayed, 9. geometry, 10. bunch, 11. stabbed, 12. ping, 13. mechanisms, 14. row, 15. stimulus

16. The issue of divorce _____ large in his mind.

v. to appear or take shape as a large, especially in a frightening way

17. Australia is widely _____ as having low levels of corruption.

v. to become aware or conscious of something through the senses

18. The _____ illusion made it appear like the building was floating in midair.

adj. of or relating to or light or the ability to see; (noun) the science of light and vision, and to instruments and techniques used in the study and application of light

19. Eyeless fish _____ in dark caves.

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

20. He is a wine _____ and can tell the difference between red and white just by smelling it.

n. a person who is interested in or particularly fond of a particular thing

21. He deals _____ with his employees.

adv. to a certain extent or degree; without favoring one party in an evenhanded manner

22. The building makes a remarkable _____ impact.

adj. relating to seeing or sight

23. He walked a road _____ to the railroad.

adj. being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations

ANSWERS: 16. loomed, 17. perceived, 18. optical, 19. evolved, 20. fancier, 21. fairly, 22. visual, 23. parallel

24. The _____ design of the wheel allows for maximum strength and stability.
adj. of or relating to rays or the radii of a circle; spreading out from a central point
25. His _____ speech about his struggles with addiction brought tears to the audience's eyes.
adj. causing strong emotions or feelings, especially sadness or sympathy
26. The campaign ad was designed with bright colors and bold fonts for maximum _____ impact.
adj. relating to vision or the eyes; relating to or involving light or optics
27. A suspension order from the court is effective _____.
adv. now or without delay
28. The _____ image on the screen took a lot of work to make out.
adj. not moving or not capable of moving, not changing or not capable of changing
29. A growing _____ requires a bold leader.
n. a business or company; a purposeful or industrious undertaking, especially one that requires effort
30. We all should learn how to _____ stress.
v. to deal with a situation, problem, or strong emotion
31. She _____ to the audience after her performance.
v. to bend your knee or body, or lower your head; (noun) a weapon made of a curved piece of wood or other flexible material, strung with a cord and used to shoot arrows

ANSWERS: 24. radial, 25. moving, 26. optic, 27. immediately, 28. static, 29. enterprise, 30. handle, 31. bowed

32. He is a man admired for the depth of his _____.
- n.* a belief, opinion, or image you have based on how you regard, understand, or interpret something; the ability to see, hear, or notice something through the senses
33. You must _____ the software with a 16-digit key before you can use it.
- v.* make something start working, more active or dynamic
34. The _____ on the wall showed that the room was three meters long.
- n.* a device used to measure the amount of a particular substance or attribute, such as length, volume, or time; (prosody) the accent in a metrical foot of verse
35. The company hired a _____ for the CEO for the shareholder meeting.
- n.* a person or thing that acts as a substitute, replacement, or temporary assistant for someone or something else; a double or understudy for a performer or actor
36. The company offered to _____ the employees for the overtime they worked.
- v.* to make up for a loss, injury, or inconvenience by giving something of value
37. His grandfather was an _____ man.
- adj.* strange or unexpected; not divisible by two
38. The town was founded in the 19th century as a stop on the _____ and it grew rapidly as a result.
- n.* metal tracks laid with rails on which trains run; a system of tracks with the trains operated by an organization
39. The director gave the actor a _____ to begin the scene.
- n.* a signal, gesture, or action that provides information or direction for someone else to act or respond; a reminder or prompt for someone to do something

ANSWERS: 32. perception, 33. activate, 34. meter, 35. stand-in, 36. compensate, 37. odd, 38. railroad, 39. cue

40. Several cities are experiencing _____ high unemployment rates.
adv. in a way that is very difficult to believe; exceedingly or extremely
41. That adventurer traveled in _____ of buried treasure.
n. a long or challenging search for something
42. Our body transfers information along each _____ using an electrical impulse.
n. a cell that is specialized to carry information within the brain and between the brain and other parts of the body
43. Damage to the _____ may play a role in the development of glaucoma.
n. the innermost light-sensitive membrane covering the back wall of the eyeball
44. The economic stimulation program would _____ a lot of new jobs.
v. to produce or create something; to make offspring by reproduction
45. The jury must _____ a decision on this complex case.
v. to bring someone or something into a particular state; to provide something such as service, help, etc.
46. The _____ approach taken by the government towards climate change is concerning.
adj. characterized by a lack of activity or initiative; not actively participating or engaging in something; marked by a tendency to accept things without resistance or opposition
47. The president asked for a more _____ plan.
adj. existing in a physical or material form rather than an abstract one; based on facts rather than ideas or guesses; made of or covered with cement

ANSWERS: 40. incredibly, 41. quest, 42. neuron, 43. retina, 44. generate, 45. render, 46. passive, 47. concrete

48. The company's _____ is "Innovation and Service," which is reflected in its products and customer support.

n. a phrase or slogan that expresses a guiding principle or goal

49. My computer has been acting _____ recently.

adj. extraordinary, unexpected, or difficult to explain

50. It seems _____ that he has forgotten our scheduled meeting.

adj. likely to happen or likely to be true

51. He could no longer tell the difference between _____ and reality.

n. a false idea or belief, especially about somebody or about a situation

52. The systems we have developed has accepted as industry _____.

n. something that is regarded as usual, typical, or standard

53. The storm left a _____ of destruction behind it.

n. a path or track roughly through a countryside, mountain, or forest area, often made or used for a particular purpose; (verb) to lag or linger behind

54. He leaned against the _____ waiting for her to come home.

n. an opening in a wall for a door to fit into

55. The ship's hull was _____ from years of use in rough seas.

v. to twist or bend out of shape, especially as a result of being heated; to distort or twist the meaning or sense of something

56. I'm prepared to _____ challenges throughout this adventure.

v. to face something, particularly something unpleasant or difficult, while attempting to do something else; to meet, especially unexpectedly

ANSWERS: 48. motto, 49. weird, 50. probable, 51. illusion, 52. norms, 53. trail, 54. doorway, 55. warped, 56. encounter

57. The _____ appearance of the building was impressive, but the inside was in dire need of repairs.
adj. relating to the external appearance or surface of something; visible
58. The _____ is about 13.8 billion years old.
n. everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
59. The camera's focus was off, and the image was a _____ of colors and shapes.
n. a faint or indistinct image or sound; something that is not clear or distinct; (verb) to become unclear; to lose clear vision
60. 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
61. This evidence supports the big-bang _____.
n. a proposed idea or explanation that is based on a few known facts but has not yet been proven to be true or accurate
62. She accidentally _____ into him in the crowded room.
v. to hit or knock against something hard, often with a dull sound; to meet with by accident
63. Could you help me _____ some furniture?
n. a slight transition in position, direction, or trend
64. She tends to _____ on small details, often losing sight of the bigger picture.
v. to focus one's attention or become overly obsessed with someone or something; to become mentally obsessed or preoccupied with a particular idea, thought, or image

ANSWERS: 57. outward, 58. universe, 59. blur, 60. brain, 61. hypothesis, 62. bumped, 63. shift, 64. fixate

65. The charity organization has helped to provide education to a vast _____ of the population.

n. a strip of land, especially a long, narrow one; a large amount or quantity of something

66. The ladder leaned against the _____ surface of the building.

adj. upright or perpendicular to a horizontal surface or line

67. He did _____ pen-and-ink drawings in just a few days.

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

68. The room was only one _____ wider than the piano, making it a tight fit.

n. a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter

ANSWERS: 65. swath, 66. vertical, 67. complicated, 68. centimeter