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Vocabulary Builder Reference from...

Natalya St. Clair: The unexpected math behind Van Gogh's "Starry Night" | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

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.

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.

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**.

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.

concept

n. an idea or principle associated with something abstract
synonym: idea, notion, vision

(1) learn new **concepts**, (2) **concept** car
One such rapidly growing **concept** is quantum cryptography.

turbulent

adj. marked by a lot of sudden changes, confusion, or uncertainty; characterized by intense activity or agitation
synonym: chaotic, stormy, tumultuous

(1) **turbulent** waves, (2) **turbulent** age
The stock market has been **turbulent** lately, with prices fluctuating rapidly.

fluid

n. a substance that can flow and is not solid
synonym: liquid, aqua, sap

(1) plenty of **fluids**, (2) **fluid** assets
She was diagnosed with a **fluid** buildup in her lungs.

dynamics

n. the branch of mechanics that deals with the motion of bodies under the action of forces, including the particular case in which a body remains at rest; forces that produce or stimulate movement, growth, or change
synonym: mechanics, kinetics, kinematics

(1) **dynamics** of group, (2) **dynamics** of economy
The relationship **dynamics** between the two countries were complex and constantly changing.

germ

n. a very tiny living that causes the disease; a piece of something such as an organism, concept, etc., capable of growing into a new one or part of one
synonym: bacterium, microbe, pathogen

(1) antibiotic-resistant **germ**, (2) a **germ-free** environment
The **germ** of his idea came from watching birds flying in flocks.

physicist

n. a scientist who specializes in the field of physics

(1) talented **physicist**, (2) theoretical **physicist**

Einstein was an outstanding and famous **physicist** of the 20th century.

relative

adj. considered and evaluated through comparison with something else

synonym: comparative, proximate, congeneric

(1) a remote **relative**, (2) **relative** factors

Most countries prohibit sexual activity between certain close **relatives**.

turbulence

n. a state of great disturbance, confusion, or uncertainty, often accompanied by violent or disruptive activity or behavior, such as air turbulence during a flight

synonym: choppiness, tumult, agitation

(1) financial **turbulence**, (2) emotional **turbulence**

The ride on the rollercoaster was full of dips and turns, creating a feeling of **turbulence**.

mathematics

n. the science dealing with the logic of quantities, shapes, spaces, and arrangement

synonym: arithmetic, calculation, calculus

(1) a good grounding in **mathematics**, (2) **mathematics** competition

He has a flair for **mathematics**.

depict

v. to illustrate someone or something in a photograph

synonym: illustrate, describe, express

(1) **depict** a scene, (2) **depict** a feeling of isolation

His son had accurately **depicted** the bloom.

sunrise

n. the time in the morning when the sun first appears in the sky

synonym: daybreak, morning, dawn

(1) beautiful **sunrise**, (2) high-technology **sunrise** industries

I got up early to watch the **sunrise** at the summit.

asylum

n. protection granted to someone who has left their home country as a political refugee

synonym: refuge, shelter, haven

(1) grant **asylum**, (2) **asylum** law

The refugees sought **asylum** in the neighboring country.

mutilate

v. to cause severe damage, disfigurement, or injury, usually to a person or an animal; to destroy, alter, or damage something severely or irreparably

synonym: maim, disfigure, deform

(1) **mutilate** a document, (2) **mutilate** a body

It is cruel for anyone to **mutilate** an animal for any reason.

psychotic

adj. relating to or characterized by a loss of touch with reality; exhibiting or suffering from a severe mental disorder characterized by delusions, hallucinations, or disordered thinking

synonym: deranged, unstable, certifiable

(1) **psychotic** medication, (2) **psychotic** episode

Her husband's death caused her to experience a **psychotic** break.

episode

n. a happening or story that is distinctive in a series of related events; an abrupt short period during which someone suffers from the effects of a physical or mental illness

synonym: event, chapter, seizure

(1) end of the first **episode**, (2) **episode** of vertigo

I want to put that **episode** of my life behind me.

circular

adj. shaped like a circle; having a round form

synonym: round, loopy, oblique

(1) **circular** economy, (2) non- **circular** orbit

The **circular** shape of the planet makes it difficult to determine which direction is north.

brushstroke

n. the mark or stroke made by a painter's brush on a canvas or surface; a single movement or action toward a larger project or goal

synonym : stroke, line, mark

(1) artistic **brushstroke**, (2) a **brushstroke** of genius

The artist made a beautiful **brushstroke** on the canvas.

swirl

v. to move in a circular or spiral pattern

synonym : spin, whirl, turn

(1) **swirl** the wine, (2) **swirl** up dirt and dust

The chef expertly **swirled** the sauce onto the plate.

eddy

n. a circular current of water or air that flows in the opposite direction to the main current, causing a small whirlpool; a current of opinion, activity, or trend that goes against the main current

synonym : whirlpool, vortex, swirl

(1) **eddy** of water, (2) **eddy** of leaves

Unfortunately, the swirling **eddy** in the river made it difficult to swim.

impressionism

n. a style of art and literature that seeks to capture the fleeting momentary sensations and impressions of perception rather than objective reality or formal structure

(1) **impressionism** movement, (2) **impressionism** style

The famous French painters Monet and Renoir were considered pioneers of **impressionism**.

represent

v. to speak, act, or be present on behalf of another person or group; to form or constitute

synonym : depict, express, describe

(1) **represent** by a diagram, (2) the characters that **represent** numbers

We elected him to **represent** us at the international conference.

predecessor

n. a person who held a position or office before the current holder

synonym: antecedent, forerunner, precursor

(1) the words of a **predecessor**, (2) **predecessor** model

The new CEO is the **predecessor** of the former CEO.

capture

v. to catch a person or an animal and confine them in an area which they cannot escape

synonym: catch, arrest, imprison

(1) **capture** a glimpse, (2) **capture** customers' hearts

I was able to **capture** the moment on film.

instance

n. a particular example or single occurrence of something

synonym: example, sample, illustration

(1) for **instance**, (2) notable **instance**

These articles cite five **instances** of climate change.

dappled

adj. marked with spots or patches of different colors or shades; having a mottled or speckled appearance; characterized by a play of light and shadow

synonym: spotted, mottled, speckled

(1) **dappled** light, (2) olive- **dappled** landscape

The **dappled** sunlight filtered through the leaves of the trees.

twinkle

v. to shine with a flickering or sparkling light; (noun) the act of shining in a bright and cheerful way

synonym: sparkle, shine, glitter

(1) **twinkle** like a star, (2) the **twinkle** of the stars

His eyes **twinkled** with mischief.

melt

v. to turn from something solid into something soft or liquid as a result of heating

synonym: disintegrate, soften, disappear

(1) **melt** the ice, (2) **melt** down gold

Her resistance **melted** under his persuasion.

luminous

adj. emitting or reflecting light, especially in the dark; shining or glowing brightly; full of light or enlightenment

synonym : radiant, glowing, brilliant

(1) **luminous** glow, (2) **luminous** stars

The room was filled with **luminous** decorations that shone in the dark.

intensify

v. to increase or make something increase in extent or strength

synonym : amplify, boost, strengthen

(1) **intensify** diplomatic efforts, (2) **intensify** a good relationship

Rebels have pledged to **intensify** the armed struggle against the dictatorship.

canvas

n. the heavy, closely woven fabric used for making tents, sails, etc. and by artists for painting on

(1) blank **canvas**, (2) oil on **canvas**

Life is a vast **canvas**; you should put as much paint on it as possible.

primitive

adj. of or relating to an early stage of society with no industry or technological development; simple, naive, or old-fashioned in style

synonym : elementary, naive, rudimentary

(1) **primitive** society, (2) artifact of a **primitive** humankind

The industry in this country is still **primitive**.

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.

cortex

n. the outermost layer of an organ, especially the brain

(1) **cortex** cells, (2) visual **cortex** neuron

The cerebral **cortex** consists of six layers.

contrast

v. to put in opposition to show or emphasize differences
synonym: differ, vary, counterpoint

(1) **contrast** with a decade ago, (2) **contrast** two things
It's intriguing to compare and **contrast** the two authors.

blend

v. to mix or combine two or more substances
synonym: combine, mix, intermingle

(1) **blend** all the elements, (2) **blend** milk and cream
The toad altered its appearance to better **blend** in with its new environments.

primate

n. any mammal of the order Primates, which includes monkeys, apes, and humans

synonym: ape, monkey, lemur

(1) **primate** species, (2) **primate** sanctuary
Many scientists study **primate** behavior and intelligence.

subdivision

n. a smaller part of something that is divided into such parts

synonym: part, section, branch

(1) an administrative **subdivision**, (2) **subdivision** of cells
The city is divided into several smaller **subdivisions**.

interpretation

n. an explanation or opinion of something, especially that is not immediately obvious

synonym: rendering, explanation, understanding

(1) the **interpretation** of history, (2) open to **interpretation**
His **interpretations** of literary works are often unique.

pulse

n. the regular heartbeat as it sends blood around the body, especially when it is felt at the wrist or side of the neck; a solid regular vibration of sound, electric current, light, or other waves

synonym: beat, vibration, throb

(1) a weak **pulse**, (2) **pulse** waves
The cardiac monitor displays the intensity of your **pulse**.

flicker

v. to shine unsteadily or intermittently, as if with a faint light
synonym: flash, spark, glimmer

(1) **flicker** every two seconds, (2) **flicker** out like a candle
The fireflies **flickered** in the darkness.

radiate

v. to spread out or emit something, such as light or heat, in all directions

synonym: give off, scatter, beam

(1) **radiate** an aura, (2) **radiate** in all directions

Roads **radiate** from the famous building in the center of the city.

oddly

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

synonym: strangely, peculiarly, weirdly

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

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

execute

v. to kill someone, especially as a legal punishment; to carry out or perform an action, duty, etc.

synonym: direct, conduct, enforce

(1) **execute** a bold strategy, (2) **execute** a double play

The mafioso who collaborated with the police was **executed**.

prominent

adj. important, well-known, or noticeable

synonym: notable, distinguished, prominent

(1) **prominent** figure, (2) play a **prominent** role

The media frequently interviewed **prominent** scientists.

striking

adj. attractive and distinctive enough to draw notice; exceedingly appealing, frequently in an odd manner

synonym: arresting, astonishing, exceptional

(1) **striking** innovation, (2) **striking** evidence

The two plays have many **striking** parallels.

propose

v. to make a proposal, declare a plan for something
synonym: suggest, offer, recommend

(1) **propose** the amendment, (2) **propose** changes
I want to **propose** a toast in honor of our longstanding relationship.

vary

v. to become different in terms of size, shape, etc.
synonym: alter, contrast, differ

(1) **vary** according to the age, (2) **vary** directly with the price
Maximum heart rates **vary** a lot for each individual.

proportion

n. a part, share, or amount of something considered in comparative relation to a whole

synonym: ratio, balance, consonance

(1) direct **proportion**, (2) a building of vast **proportions**
He is more concerned about the **proportion** of his body fat than usual because of an upcoming bodybuilding competition.

experimental

adj. relating to or based on new ideas, forms, methods, etc. that have not been tried before, usually to find out what effect they have

synonym: empirical, exploratory, observed

(1) **experimental** data, (2) **experimental** design
The product is still in the **experimental** stage.

unsolved

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

synonym: unresolved, mysterious, perplexing

(1) **unsolved** mystery, (2) **unsolved** crime
The case remains **unsolved** after years of investigation.

physics

n. the science of matter and energy and their interactions

(1) nuclear **physics**, (2) laws of **physics**

He studied the **physics** of radiation.

cascade

n. a small waterfall or series of small waterfalls; a succession of stages or operations or processes or units

synonym : waterfall, watercourse, step

(1) **cascade** connection, (2) transistor **cascade**

The **cascade** of waterfalls in the national park was a breathtaking sight.

transfer

v. to move, pass, or change from one person, place, or situation to another

synonym : move, relocate, shift

(1) **transfer** a file, (2) **transfer** power

She **transferred** the money from her savings account to her checking account.

likewise

adv. in the same way

synonym : alike, correspondingly, similarly

(1) do **likewise**, (2) please revise **likewise**

He is tall and **likewise** strong.

Jovian

adj. relating to Jupiter or its characteristics

synonym : Jupiter, giant planet

(1) **Jovian** satellites, (2) **Jovian** planet

The **Jovian** moon Europa is believed to have an ocean beneath its icy surface.

spot

n. a particular location or place; a small round or roundish area, differing in color or feels from the surface around it

synonym : dot, mark, place

(1) beauty **spot**, (2) a **spot** on his honor

This remote **spot** is rarely visited.

interstellar

adj. relating to or located in the space between stars

synonym : galactic, cosmic, intergalactic

(1) **interstellar** communication, (2) **interstellar** space

The **interstellar** medium comprises gas, dust, and cosmic rays that fill the space between stars.

particle

n. a small piece of something; a word or piece of a term with grammatical function but little or no significance

synonym : atom, grain, bit

(1) charged **particle**, (2) **particle** energy

We can calculate the position of the **particles** statistically.

telescope

n. a device like a tube in shape containing lenses used to magnify and observe distant objects

(1) a binocular **telescope**, (2) look through a **telescope**

This facility has the largest astronomical **telescope** in the country.

distant

adj. far away in space, time, or where you are; far apart in relevance, relationship, or kinship

synonym : far, isolated, remote

(1) a **distant** memory, (2) **distant** ancestors

The sun set over the crest of **distant** hills.

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.

discovery

n. the act or process of finding information, a place, or an object, or learning about something that was previously not known

synonym : finding, uncovering, detection

(1) a scientific **discovery**, (2) the great **discovery** of the century

Her research team made an important **discovery**.

distinct

adj. noticeable from something else of a similar type

synonym : different, special, characteristic

(1) **distinct** difference, (2) **distinct** from each other

It is essential to keep these two issues **distinct**.

structure

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

synonym: construction, architecture, establishment

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

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

equation

n. the act of regarding as equal; (mathematics) a statement that expresses the equality of two expressions by connecting them with the equals sign

(1) the **equation** of poverty with ignorance, (2) a chemical **equation**

In this class, you will learn how to solve quadratic **equations**.

digit

n. one of the elements that collectively form a system of numeration; a finger, thumb, or toe

synonym: number, integer, numeral

(1) **digit** identifier, (2) the **digit** in the hundreds place

We must enter a six- **digit** number to unlock the safe.

pixel

n. the smallest unit of an image that can be displayed or manipulated electronically, typically a point of light on a computer screen or in a digital image

synonym: dot, point, picture element

(1) **pixel** density, (2) color **pixels**

The computer screen comprises thousands of tiny **pixels** that create the overall picture.

curve

n. a bend or angle in a line or surface that deviates from a straight or flat path; a gradual or smooth change in direction or shape

synonym: bend, arc, turn

(1) learning **curve**, (2) yield **curve**

The **curve** in the road was so sharp that I had to slow down to navigate it safely.

separate

v. to force, take, or pull apart; mark as different

synonym: disunite, isolate, ramify

(1) **separate** video into chapter, (2) **separate** cream from milk

We need to **separate** the aspect of his personality from the part of his competence when making an investment decision.

conclude

v. to come to an end or close; to reach a judgment or opinion by reasoning

synonym: complete, finish, decide

(1) **conclude** a meeting, (2) **conclude** that he is healthy

We **concluded** a cease-fire.

agitation

n. a state of anxiety, excitement, or disturbance that is often associated with restlessness, agitation, or nervousness; the act of stirring or moving something in a rapid or erratic manner

synonym: excitement, restlessness, turmoil

(1) **agitation** levels, (2) political **agitation**

The crowd's **agitation** grew as the politician failed to answer their questions.

portrait

n. a painting, picture; the likeness of a person, especially one showing the face

synonym: illustration, image, portraiture

(1) a **portrait** painter, (2) **portrait** of a well-known figure

A well-known artist painted this lovely lady's **portrait**.

calm

adj. not excited, angry, or nervous; free from wind, large waves

synonym: quiet, peaceful, tranquility

(1) **calm** sea, (2) **calm** manner

It was the first time in a long time that I felt truly **calm** and at

peace.

correspondence

n. the letters, emails, etc., especially official or business ones; the quality or state of being the same in amount, number, status

synonym: letters, closeness, likeness

(1) a business **correspondence**, (2) one-to-one **correspondence**

The results of the two experiments were in **correspondence**.

glance

v. to give a quick or brief look; to hit something at an angle

synonym: glimpse, peek, flash

(1) **glance** around nervously, (2) **glance** at him miserably
I casually **glanced** into the small hut.

munch

v. to chew or eat something noisily, often with the sound of crunching or crunching

synonym: chew, nibble, gnaw

(1) **munch** on an apple, (2) **munch** away on crisps

I love to **munch** on popcorn while I watch a movie.

scream

v. to give a loud, high shout suddenly, especially because of fear, anger, excitement, etc.; to utter or declare in a very loud voice

synonym: cry, shout, yell

(1) **scream** a profanity, (2) **scream** at him to be quiet

She kept **screaming** for an ambulance.

genius

n. someone who has exceptional intellectual ability and originality

synonym: brilliance, brainiac, acumen

(1) a person of **genius**, (2) a **genius** for music

Mozart was a musical **genius**.

accurate

adj. correct and exact in all details

synonym: exact, precise, proper

(1) provide **accurate** information, (2) **accurate**

measurements

The official transcript contains **accurate** academic records.

rousing

adj. exciting, stimulating, or inspiring; causing a strong emotional or physical response; arousing enthusiasm or interest

synonym: exciting, stirring, invigorating

(1) **rousing** music, (2) **rousing** business

The **rousing** speech by the coach pumped up the team before the big game.

intense

adj. (especially of a feeling) very strong; extremely sharp or severe

synonym: extreme, fierce, harsh

(1) **intense** heat, (2) develop **intense** itching

That statement by the prime minister drew **intense** international criticism.

suffer

v. to experience pain, distress, or hardship; to undergo or endure something painful or unpleasant

synonym: endure, undergo, tolerate

(1) **suffer** a setback, (2) **suffer** bad grades

The older man **suffers** from arthritis and finds it difficult to move around.

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.

supreme

adj. highest in rank, level, or importance

synonym: foremost, highest, greatest

(1) the **supreme** commander, (2) justice of the **supreme** court

The **supreme** pleasure of life is the conviction that we are loved.

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.

mystery

n. something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest of something; a genre of fiction that involves the solution of a crime or a puzzle

synonym: enigma, puzzle, secret

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

The **mystery** surrounding the disappearance of the traveler has yet to be solved by authorities.

movement

n. a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively

synonym: motion, progression, action

(1) a circular **movement**, (2) **movement** of troops

The **movement** of the dancers on stage was graceful and elegant.

Session 2: Spelling

- | | |
|--------------------------------------|---|
| 1. learn new co_____ts | <i>n.</i> an idea or principle associated with something abstract |
| 2. ci_____ar economy | <i>adj.</i> shaped like a circle; having a round form |
| 3. e__y of leaves | <i>n.</i> a circular current of water or air that flows in the opposite direction to the main current, causing a small whirlpool; a current of opinion, activity, or trend that goes against the main current |
| 4. co_____t car | <i>n.</i> an idea or principle associated with something abstract |
| 5. pr_____e the amendment | <i>v.</i> to make a proposal, declare a plan for something |
| 6. ca_____e a glimpse | <i>v.</i> to catch a person or an animal and confine them in an area which they cannot escape |
| 7. do li_____se | <i>adv.</i> in the same way |
| 8. artifact of a pr_____ve humankind | <i>adj.</i> of or relating to an early stage of society with no industry or technological development; simple, naive, or old-fashioned in style |
| 9. ex_____e a double play | <i>v.</i> to kill someone, especially as a legal punishment; to carry out or perform an action, duty, etc. |
| 10. look through a te_____pe | <i>n.</i> a device like a tube in shape containing lenses used to magnify and observe distant objects |

ANSWERS: 1. concept, 2. circular, 3. eddy, 4. concept, 5. propose, 6. capture, 7. likewise, 8. primitive, 9. execute, 10. telescope

- | | |
|-------------------------------|---|
| 11. oil on ca___s | <i>n.</i> the heavy, closely woven fabric used for making tents, sails, etc. and by artists for painting on |
| 12. int_____lar space | <i>adj.</i> relating to or located in the space between stars |
| 13. pr_____ve society | <i>adj.</i> of or relating to an early stage of society with no industry or technological development; simple, naive, or old-fashioned in style |
| 14. a po_____it painter | <i>n.</i> a painting, picture; the likeness of a person, especially one showing the face |
| 15. un_____ed mystery | <i>adj.</i> not yet understood, explained, or resolved; remaining a mystery or enigma |
| 16. int_____lar communication | <i>adj.</i> relating to or located in the space between stars |
| 17. m__t the ice | <i>v.</i> to turn from something solid into something soft or liquid as a result of heating |
| 18. tu_____nt waves | <i>adj.</i> marked by a lot of sudden changes, confusion, or uncertainty; characterized by intense activity or agitation |
| 19. sc___m at him to be quiet | <i>v.</i> to give a loud, high shout suddenly, especially because of fear, anger, excitement, etc.; to utter or declare in a very loud voice |
| 20. gl___e around nervously | <i>v.</i> to give a quick or brief look; to hit something at an angle |
| 21. di_____ct from each other | <i>adj.</i> noticeable from something else of a similar type |

ANSWERS: 11. canvas, 12. interstellar, 13. primitive, 14. portrait, 15. unsolved, 16. interstellar, 17. melt, 18. turbulent, 19. scream, 20. glance, 21. distinct

22. theoretical ph_____st *n.* a scientist who specializes in the field of physics
23. ag_____on levels *n.* a state of anxiety, excitement, or disturbance that is often associated with restlessness, agitation, or nervousness; the act of stirring or moving something in a rapid or erratic manner
24. exp_____tal data *adj.* relating to or based on new ideas, forms, methods, etc. that have not been tried before, usually to find out what effect they have
25. de___t a feeling of isolation *v.* to illustrate someone or something in a photograph
26. tr_____er a file *v.* to move, pass, or change from one person, place, or situation to another
27. a chemical eq_____on *n.* the act of regarding as equal; (mathematics) a statement that expresses the equality of two expressions by connecting them with the equals sign
28. exp_____tal design *adj.* relating to or based on new ideas, forms, methods, etc. that have not been tried before, usually to find out what effect they have
29. tu_____nt age *adj.* marked by a lot of sudden changes, confusion, or uncertainty; characterized by intense activity or agitation
30. ps_____ic episode *adj.* relating to or characterized by a loss of touch with reality; exhibiting or suffering from a severe mental disorder characterized by delusions, hallucinations, or disordered thinking

ANSWERS: 22. physicist, 23. agitation, 24. experimental, 25. depict, 26. transfer, 27. equation, 28. experimental, 29. turbulent, 30. psychotic

31. re____ve factors *adj.* considered and evaluated through comparison with something else
32. the rem_____le breadth of knowledge *adj.* worthy of attention because unusual or special
33. field of vi____l arts *adj.* relating to seeing or sight
34. grant as____m *n.* protection granted to someone who has left their home country as a political refugee
35. pr____e sanctuary *n.* any mammal of the order Primates, which includes monkeys, apes, and humans
36. in_____fy a good relationship *v.* to increase or make something increase in extent or strength
37. a s__t on his honor *n.* a particular location or place; a small round or roundish area, differing in color or feels from the surface around it
38. the great di_____ry of the century *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
39. pi__l density *n.* the smallest unit of an image that can be displayed or manipulated electronically, typically a point of light on a computer screen or in a digital image
40. v__y according to the age *v.* to become different in terms of size, shape, etc.
41. a circular mo_____nt *n.* a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively

ANSWERS: 31. relative, 32. remarkable, 33. visual, 34. asylum, 35. primate, 36. intensify, 37. spot, 38. discovery, 39. pixel, 40. vary, 41. movement

42. mu__h away on crisps *v.* to chew or eat something noisily, often with the sound of crunching or crunching
43. co_____st two things *v.* to put in opposition to show or emphasize differences
44. un_____ed crime *adj.* not yet understood, explained, or resolved; remaining a mystery or enigma
45. behave od__y *adv.* in a way that is unexpected, strange, or peculiar
46. a scientific di_____ry *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
47. mu__h on an apple *v.* to chew or eat something noisily, often with the sound of crunching or crunching
48. direct pro_____on *n.* a part, share, or amount of something considered in comparative relation to a whole
49. a person of ge___s *n.* someone who has exceptional intellectual ability and originality
50. ra_____e an aura *v.* to spread out or emit something, such as light or heat, in all directions
51. 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
52. financial tur_____ce *n.* a state of great disturbance, confusion, or uncertainty, often accompanied by violent or disruptive activity or behavior, such as air turbulence during a flight

ANSWERS: 42. munch, 43. contrast, 44. unsolved, 45. oddly, 46. discovery, 47. munch, 48. proportion, 49. genius, 50. radiate, 51. recognize, 52. turbulence

53. ps_____ic medication *adj.* relating to or characterized by a loss of touch with reality; exhibiting or suffering from a severe mental disorder characterized by delusions, hallucinations, or disordered thinking
54. for in_____ce *n.* a particular example or single occurrence of something
55. sw__l the wine *v.* to move in a circular or spiral pattern
56. a ge___s for music *n.* someone who has exceptional intellectual ability and originality
57. fl_____r every two seconds *v.* to shine unsteadily or intermittently, as if with a faint light
58. co___x cells *n.* the outermost layer of an organ, especially the brain
59. the tw_____e of the stars *v.* to shine with a flickering or sparkling light; (noun) the act of shining in a bright and cheerful way
60. emotional tur_____ce *n.* a state of great disturbance, confusion, or uncertainty, often accompanied by violent or disruptive activity or behavior, such as air turbulence during a flight
61. pu__e waves *n.* the regular heartbeat as it sends blood around the body, especially when it is felt at the wrist or side of the neck; a solid regular vibration of sound, electric current, light, or other waves
62. develop in_____e itching *adj.* (especially of a feeling) very strong; extremely sharp or severe
63. bl__d all the elements *v.* to mix or combine two or more substances

ANSWERS: 53. psychotic, 54. instance, 55. swirl, 56. genius, 57. flicker, 58. cortex, 59. twinkle, 60. turbulence, 61. pulse, 62. intense, 63. blend

64. visual co___x neuron *n.* the outermost layer of an organ, especially the brain
65. di__t identifier *n.* one of the elements that collectively form a system of numeration; a finger, thumb, or toe
66. transistor ca_____e *n.* a small waterfall or series of small waterfalls; a succession of stages or operations or processes or units
67. political ag_____on *n.* a state of anxiety, excitement, or disturbance that is often associated with restlessness, agitation, or nervousness; the act of stirring or moving something in a rapid or erratic manner
68. pe_____ve light *v.* to become aware or conscious of something through the senses
69. a g__m-free environment *n.* a very tiny living that causes the disease; a piece of something such as an organism, concept, etc., capable of growing into a new one or part of one
70. re_____nt by a diagram *v.* to speak, act, or be present on behalf of another person or group; to form or constitute
71. in_____fy diplomatic efforts *v.* to increase or make something increase in extent or strength
72. ep_____e of vertigo *n.* a happening or story that is distinctive in a series of related events; an abrupt short period during which someone suffers from the effects of a physical or mental illness

ANSWERS: 64. cortex, 65. digit, 66. cascade, 67. agitation, 68. perceive, 69. germ, 70. represent, 71. intensify, 72. episode

73. sub_____on of cells *n.* a smaller part of something that is divided into such parts
74. c__m sea *adj.* not excited, angry, or nervous; free from wind, large waves
75. co_____de a meeting *v.* to come to an end or close; to reach a judgment or opinion by reasoning
76. ca_____e customers' hearts *v.* to catch a person or an animal and confine them in an area which they cannot escape
77. gl___e at him miserably *v.* to give a quick or brief look; to hit something at an angle
78. da_____d light *adj.* marked with spots or patches of different colors or shades; having a mottled or speckled appearance; characterized by a play of light and shadow
79. non-ci_____ar orbit *adj.* shaped like a circle; having a round form
80. notable in_____ce *n.* a particular example or single occurrence of something
81. a binocular te_____pe *n.* a device like a tube in shape containing lenses used to magnify and observe distant objects
82. ra_____e in all directions *v.* to spread out or emit something, such as light or heat, in all directions
83. sw___l up dirt and dust *v.* to move in a circular or spiral pattern
84. rem_____le achievement *adj.* worthy of attention because unusual or special

ANSWERS: 73. subdivision, 74. calm, 75. conclude, 76. capture, 77. glance, 78. dappled, 79. circular, 80. instance, 81. telescope, 82. radiate, 83. swirl, 84. remarkable

85. high-technology su_____e industries *n.* the time in the morning when the sun first appears in the sky
86. unsolved my_____y *n.* something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest of something; a genre of fiction that involves the solution of a crime or a puzzle
87. blank ca_____s *n.* the heavy, closely woven fabric used for making tents, sails, etc. and by artists for painting on
88. de_____t a scene *v.* to illustrate someone or something in a photograph
89. a building of vast pro_____ons *n.* a part, share, or amount of something considered in comparative relation to a whole
90. the st_____re of a machine *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
91. please revise li_____se *adv.* in the same way
92. the eq_____on of poverty with ignorance *n.* the act of regarding as equal; (mathematics) a statement that expresses the equality of two expressions by connecting them with the equals sign
93. laws of ph_____s *n.* the science of matter and energy and their interactions
94. artistic bru_____ke *n.* the mark or stroke made by a painter's brush on a canvas or surface; a single movement or action toward a larger project or goal

ANSWERS: 85. sunrise, 86. mystery, 87. canvas, 88. depict, 89. proportion, 90. structure, 91. likewise, 92. equation, 93. physics, 94. brushstroke

95. dy____cs of group *n.* the branch of mechanics that deals with the motion of bodies under the action of forces, including the particular case in which a body remains at rest; forces that produce or stimulate movement, growth, or change
96. se____te video into chapter *v.* to force, take, or pull apart; mark as different
97. mat____cs competition *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
98. permanent br__n damage *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
99. ca____e connection *n.* a small waterfall or series of small waterfalls; a succession of stages or operations or processes or units
100. sc____m a profanity *v.* to give a loud, high shout suddenly, especially because of fear, anger, excitement, etc.; to utter or declare in a very loud voice
101. co____st with a decade ago *v.* to put in opposition to show or emphasize differences
102. the mo__o for safe traffic *n.* a phrase or slogan that expresses a guiding principle or goal
103. plenty of fl__ds *n.* a substance that can flow and is not solid
104. pe____ve a threat *v.* to become aware or conscious of something through the senses

ANSWERS: 95. dynamics, 96. separate, 97. mathematics, 98. brain, 99. cascade, 100. scream, 101. contrast, 102. motto, 103. fluid, 104. perceive

105. dy____cs of economy *n.* the branch of mechanics that deals with the motion of bodies under the action of forces, including the particular case in which a body remains at rest; forces that produce or stimulate movement, growth, or change
106. company mo__o *n.* a phrase or slogan that expresses a guiding principle or goal
107. the di__t in the hundreds place *n.* one of the elements that collectively form a system of numeration; a finger, thumb, or toe
108. e__y of water *n.* a circular current of water or air that flows in the opposite direction to the main current, causing a small whirlpool; a current of opinion, activity, or trend that goes against the main current
109. pr____e species *n.* any mammal of the order Primates, which includes monkeys, apes, and humans
110. pa____le energy *n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance
111. mo____nt of troops *n.* a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively
112. a remote re____ve *adj.* considered and evaluated through comparison with something else
113. ac____te measurements *adj.* correct and exact in all details

ANSWERS: 105. dynamics, 106. motto, 107. digit, 108. eddy, 109. primate, 110. particle, 111. movement, 112. relative, 113. accurate

114. ex____e a bold strategy *v.* to kill someone, especially as a legal punishment; to carry out or perform an action, duty, etc.
115. su____r a setback *v.* to experience pain, distress, or hardship; to undergo or endure something painful or unpleasant
116. the words of a pre____or *n.* a person who held a position or office before the current holder
117. nontechnical as____ts of the job *n.* one part or feature of a situation, problem, subject, etc.
118. st____re and function of the brain *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
119. as____m law *n.* protection granted to someone who has left their home country as a political refugee
120. talented ph____st *n.* a scientist who specializes in the field of physics
121. the characters that re____nt numbers *v.* to speak, act, or be present on behalf of another person or group; to form or constitute
122. nuclear ph____s *n.* the science of matter and energy and their interactions
123. bl__d milk and cream *v.* to mix or combine two or more substances
124. a weak pu__e *n.* the regular heartbeat as it sends blood around the body, especially when it is felt at the wrist or side of the neck; a solid regular vibration of sound, electric current, light, or other waves

ANSWERS: 114. execute, 115. suffer, 116. predecessor, 117. aspect, 118. structure, 119. asylum, 120. physicist, 121. represent, 122. physics, 123. blend, 124. pulse

125. vi___l navigation *adj.* relating to seeing or sight
126. a bru_____ke of genius *n.* the mark or stroke made by a painter's brush on a canvas or surface; a single movement or action toward a larger project or goal
127. as___ts of social, political, and economic life *n.* one part or feature of a situation, problem, subject, etc.
128. mu_____te a body *v.* to cause severe damage, disfigurement, or injury, usually to a person or an animal; to destroy, alter, or damage something severely or irreparably
129. the su_____e commander *adj.* highest in rank, level, or importance
130. a business cor_____nce *n.* the letters, emails, etc., especially official or business ones; the quality or state of being the same in amount, number, status
131. st_____ng evidence *adj.* attractive and distinctive enough to draw notice; exceedingly appealing, frequently in an odd manner
132. Jo___n planet *adj.* relating to Jupiter or its characteristics
133. open to int_____ion *n.* an explanation or opinion of something, especially that is not immediately obvious
134. st_____ng innovation *adj.* attractive and distinctive enough to draw notice; exceedingly appealing, frequently in an odd manner
135. m__t down gold *v.* to turn from something solid into something soft or liquid as a result of heating

ANSWERS: 125. visual, 126. brushstroke, 127. aspect, 128. mutilate, 129. supreme, 130. correspondence, 131. striking, 132. Jovian, 133. interpretation, 134. striking, 135. melt

136. tw____e like a star *v.* to shine with a flickering or sparkling light; (noun) the act of shining in a bright and cheerful way
137. end of the first ep____e *n.* a happening or story that is distinctive in a series of related events; an abrupt short period during which someone suffers from the effects of a physical or mental illness
138. yield cu__e *n.* a bend or angle in a line or surface that deviates from a straight or flat path; a gradual or smooth change in direction or shape
139. lu____us glow *adj.* emitting or reflecting light, especially in the dark; shining or glowing brightly; full of light or enlightenment
140. v__y directly with the price *v.* to become different in terms of size, shape, etc.
141. fl____r out like a candle *v.* to shine unsteadily or intermittently, as if with a faint light
142. charged pa____le *n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance
143. pr____e changes *v.* to make a proposal, declare a plan for something
144. beautiful su____e *n.* the time in the morning when the sun first appears in the sky
145. imp_____ism movement *n.* a style of art and literature that seeks to capture the fleeting momentary sensations and impressions of perception rather than objective reality or formal structure

ANSWERS: 136. twinkle, 137. episode, 138. curve, 139. luminous, 140. vary, 141. flicker, 142. particle, 143. propose, 144. sunrise, 145. impressionism

146. pre_____or model *n.* a person who held a position or office before the current holder
147. basic br__n function *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
148. tr_____er power *v.* to move, pass, or change from one person, place, or situation to another
149. antibiotic-resistant g__m *n.* a very tiny living that causes the disease; a piece of something such as an organism, concept, etc., capable of growing into a new one or part of one
150. the int_____ion of history *n.* an explanation or opinion of something, especially that is not immediately obvious
151. play a pr_____nt role *adj.* important, well-known, or noticeable
152. a good grounding in mat_____cs *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
153. su___r bad grades *v.* to experience pain, distress, or hardship; to undergo or endure something painful or unpleasant
154. Jo___n satellites *adj.* relating to Jupiter or its characteristics
155. mu_____te a document *v.* to cause severe damage, disfigurement, or injury, usually to a person or an animal; to destroy, alter, or damage something severely or irreparably
156. lu_____us stars *adj.* emitting or reflecting light, especially in the dark; shining or glowing brightly; full of light or enlightenment

ANSWERS: 146. predecessor, 147. brain, 148. transfer, 149. germ, 150. interpretation, 151. prominent, 152. mathematics, 153. suffer, 154. Jovian, 155. mutilate, 156. luminous

157. co____de that he is healthy *v.* to come to an end or close; to reach a judgment or opinion by reasoning
158. po____it of a well-known figure *n.* a painting, picture; the likeness of a person, especially one showing the face
159. fl__d assets *n.* a substance that can flow and is not solid
160. in____e heat *adj.* (especially of a feeling) very strong; extremely sharp or severe
161. hu____nd as a species *n.* the whole of the living human inhabitants of the earth
162. a di____t memory *adj.* far away in space, time, or where you are; far apart in relevance, relationship, or kinship
163. beauty s__t *n.* a particular location or place; a small round or roundish area, differing in color or feels from the surface around it
164. di____ct difference *adj.* noticeable from something else of a similar type
165. od__y familiar *adv.* in a way that is unexpected, strange, or peculiar
166. justice of the su____e court *adj.* highest in rank, level, or importance
167. pr____nt figure *adj.* important, well-known, or noticeable
168. imp______ism style *n.* a style of art and literature that seeks to capture the fleeting momentary sensations and impressions of perception rather than objective reality or formal structure
169. ro____g business *adj.* exciting, stimulating, or inspiring; causing a strong emotional or physical response; arousing enthusiasm or interest

ANSWERS: 157. conclude, 158. portrait, 159. fluid, 160. intense, 161. humankind, 162. distant, 163. spot, 164. distinct, 165. oddly, 166. supreme, 167. prominent, 168. impressionism, 169. rousing

170. se_____te cream from milk *v.* to force, take, or pull apart; mark as different
171. an administrative sub_____on *n.* a smaller part of something that is divided into such parts
172. di_____t ancestors *adj.* far away in space, time, or where you are; far apart in relevance, relationship, or kinship
173. color pi___ls *n.* the smallest unit of an image that can be displayed or manipulated electronically, typically a point of light on a computer screen or in a digital image
174. history of hu_____nd *n.* the whole of the living human inhabitants of the earth
175. olive-da_____d landscape *adj.* marked with spots or patches of different colors or shades; having a mottled or speckled appearance; characterized by a play of light and shadow
176. one-to-one cor_____nce *n.* the letters, emails, etc., especially official or business ones; the quality or state of being the same in amount, number, status
177. ro_____g music *adj.* exciting, stimulating, or inspiring; causing a strong emotional or physical response; arousing enthusiasm or interest
178. 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

ANSWERS: 170. separate, 171. subdivision, 172. distant, 173. pixel, 174. humankind, 175. dappled, 176. correspondence, 177. rousing, 178. recognize

179. c__m manner *adj.* not excited, angry, or nervous; free from wind, large waves
180. learning cu__e *n.* a bend or angle in a line or surface that deviates from a straight or flat path; a gradual or smooth change in direction or shape
181. provide ac____te information *adj.* correct and exact in all details
182. my____y novel *n.* something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest of something; a genre of fiction that involves the solution of a crime or a puzzle

ANSWERS: 179. calm, 180. curve, 181. accurate, 182. mystery

Session 3: Fill in the Blanks

1. The relationship _____ between the two countries were complex and constantly changing.
 - n.* the branch of mechanics that deals with the motion of bodies under the action of forces, including the particular case in which a body remains at rest; forces that produce or stimulate movement, growth, or change

2. The room was filled with _____ decorations that shone in the dark.
 - adj.* emitting or reflecting light, especially in the dark; shining or glowing brightly; full of light or enlightenment

3. His _____ of literary works are often unique.
 - n.* an explanation or opinion of something, especially that is not immediately obvious

4. I casually _____ into the small hut.
 - v.* to give a quick or brief look; to hit something at an angle

5. The _____ pleasure of life is the conviction that we are loved.
 - adj.* highest in rank, level, or importance

6. The _____ medium comprises gas, dust, and cosmic rays that fill the space between stars.
 - adj.* relating to or located in the space between stars

7. The cardiac monitor displays the intensity of your _____.
 - n.* the regular heartbeat as it sends blood around the body, especially when it is felt at the wrist or side of the neck; a solid regular vibration of sound, electric current, light, or other waves

ANSWERS: 1. dynamics, 2. luminous, 3. interpretations, 4. glanced, 5. supreme, 6. interstellar, 7. pulse

8. I love to _____ on popcorn while I watch a movie.
v. to chew or eat something noisily, often with the sound of crunching or crunching
9. The sun set over the crest of _____ hills.
adj. far away in space, time, or where you are; far apart in relevance, relationship, or kinship
10. A well-known artist painted this lovely lady's _____.
n. a painting, picture; the likeness of a person, especially one showing the face
11. The _____ in the road was so sharp that I had to slow down to navigate it safely.
n. a bend or angle in a line or surface that deviates from a straight or flat path; a gradual or smooth change in direction or shape
12. That statement by the prime minister drew _____ international criticism.
adj. (especially of a feeling) very strong; extremely sharp or severe
13. We need to _____ the aspect of his personality from the part of his competence when making an investment decision.
v. to force, take, or pull apart; mark as different
14. He is tall and _____ strong.
adv. in the same way
15. The _____ moon Europa is believed to have an ocean beneath its icy surface.
adj. relating to Jupiter or its characteristics
16. This remote _____ is rarely visited.
n. a particular location or place; a small round or roundish area, differing in color or feels from the surface around it

ANSWERS: 8. munch, 9. distant, 10. portrait, 11. curve, 12. intense, 13. separate, 14. likewise, 15. Jovian, 16. spot

17. The new CEO is the _____ of the former CEO.

n. a person who held a position or office before the current holder

18. The artist made a beautiful _____ on the canvas.

n. the mark or stroke made by a painter's brush on a canvas or surface; a single movement or action toward a larger project or goal

19. Life is a vast _____ you should put as much paint on it as possible.

n. the heavy, closely woven fabric used for making tents, sails, etc. and by artists for painting on

20. Her research team made an important _____.

n. the act or process of finding information, a place, or an object, or learning about something that was previously not known

21. His son had accurately _____ the bloom.

v. to illustrate someone or something in a photograph

22. It's intriguing to compare and _____ the two authors.

v. to put in opposition to show or emphasize differences

23. The product is still in the _____ stage.

adj. relating to or based on new ideas, forms, methods, etc. that have not been tried before, usually to find out what effect they have

24. The stock market has been _____ lately, with prices fluctuating rapidly.

adj. marked by a lot of sudden changes, confusion, or uncertainty; characterized by intense activity or agitation

ANSWERS: 17. predecessor, 18. brushstroke, 19. canvas, 20. discovery, 21. depicted, 22. contrast, 23. experimental, 24. turbulent

25. Australia is widely _____ as having low levels of corruption.
v. to become aware or conscious of something through the senses
26. The toad altered its appearance to better _____ in with its new environments.
v. to mix or combine two or more substances
27. In this class, you will learn how to solve quadratic _____.
n. the act of regarding as equal; (mathematics) a statement that expresses the equality of two expressions by connecting them with the equals sign
28. The building makes a remarkable _____ impact.
adj. relating to seeing or sight
29. His eyes _____ with mischief.
v. to shine with a flickering or sparkling light; (noun) the act of shining in a bright and cheerful way
30. It is cruel for anyone to _____ an animal for any reason.
v. to cause severe damage, disfigurement, or injury, usually to a person or an animal; to destroy, alter, or damage something severely or irreparably
31. The refugees sought _____ in the neighboring country.
n. protection granted to someone who has left their home country as a political refugee
32. The two plays have many _____ parallels.
adj. attractive and distinctive enough to draw notice; exceedingly appealing, frequently in an odd manner

ANSWERS: 25. perceived, 26. blend, 27. equations, 28. visual, 29. twinkled, 30. mutilate, 31. asylum, 32. striking

33. One such rapidly growing _____ is quantum cryptography.
n. an idea or principle associated with something abstract
34. He studied the _____ of radiation.
n. the science of matter and energy and their interactions
35. The _____ shape of the planet makes it difficult to determine which direction is north.
adj. shaped like a circle; having a round form
36. The _____ sunlight filtered through the leaves of the trees.
adj. marked with spots or patches of different colors or shades; having a mottled or speckled appearance; characterized by a play of light and shadow
37. The cerebral _____ consists of six layers.
n. the outermost layer of an organ, especially the brain
38. I got up early to watch the _____ at the summit.
n. the time in the morning when the sun first appears in the sky
39. The crowd's _____ grew as the politician failed to answer their questions.
n. a state of anxiety, excitement, or disturbance that is often associated with restlessness, agitation, or nervousness; the act of stirring or moving something in a rapid or erratic manner
40. He has a flair for _____.
n. the science dealing with the logic of quantities, shapes, spaces, and arrangement

ANSWERS: 33. concept, 34. physics, 35. circular, 36. dappled, 37. cortex, 38. sunrise, 39. agitation, 40. mathematics

41. These articles cite five _____ of climate change.
n. a particular example or single occurrence of something
42. We must enter a six-_____ number to unlock the safe.
n. one of the elements that collectively form a system of numeration; a finger, thumb, or toe
43. Rebels have pledged to _____ the armed struggle against the dictatorship.
v. to increase or make something increase in extent or strength
44. The mafioso who collaborated with the police was _____.
v. to kill someone, especially as a legal punishment; to carry out or perform an action, duty, etc.
45. I want to _____ a toast in honor of our longstanding relationship.
v. to make a proposal, declare a plan for something
46. The ride on the rollercoaster was full of dips and turns, creating a feeling of _____.
n. a state of great disturbance, confusion, or uncertainty, often accompanied by violent or disruptive activity or behavior, such as air turbulence during a flight
47. The city is divided into several smaller _____.
n. a smaller part of something that is divided into such parts
48. Mozart was a musical _____.
n. someone who has exceptional intellectual ability and originality
49. We _____ a cease-fire.
v. to come to an end or close; to reach a judgment or opinion by reasoning

ANSWERS: 41. instances, 42. digit, 43. intensify, 44. executed, 45. propose, 46. turbulence, 47. subdivisions, 48. genius, 49. concluded

50. The organizational _____ of start-ups is often flat and straightforward.
n. the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
51. He walked into the party with an _____ dressed companion, causing everyone to stare.
adv. in a way that is unexpected, strange, or peculiar
52. His professional experience includes all _____ of media production.
n. one part or feature of a situation, problem, subject, etc.
53. We elected him to _____ us at the international conference.
v. to speak, act, or be present on behalf of another person or group; to form or constitute
54. The _____ of waterfalls in the national park was a breathtaking sight.
n. a small waterfall or series of small waterfalls; a succession of stages or operations or processes or units
55. I want to put that _____ of my life behind me.
n. a happening or story that is distinctive in a series of related events; an abrupt short period during which someone suffers from the effects of a physical or mental illness
56. The _____ speech by the coach pumped up the team before the big game.
adj. exciting, stimulating, or inspiring; causing a strong emotional or physical response; arousing enthusiasm or interest
57. The results of the two experiments were in _____.
n. the letters, emails, etc., especially official or business ones; the quality or state of being the same in amount, number, status

ANSWERS: 50. structure, 51. oddly, 52. aspects, 53. represent, 54. cascade, 55. episode, 56. rousing, 57. correspondence

58. Roads _____ from the famous building in the center of the city.

v. to spread out or emit something, such as light or heat, in all directions

59. The industry in this country is still _____.

adj. of or relating to an early stage of society with no industry or technological development; simple, naive, or old-fashioned in style

60. Unfortunately, the swirling _____ in the river made it difficult to swim.

n. a circular current of water or air that flows in the opposite direction to the main current, causing a small whirlpool; a current of opinion, activity, or trend that goes against the main current

61. It was the first time in a long time that I felt truly _____ and at peace.

adj. not excited, angry, or nervous; free from wind, large waves

62. The computer screen comprises thousands of tiny _____ that create the overall picture.

n. the smallest unit of an image that can be displayed or manipulated electronically, typically a point of light on a computer screen or in a digital image

63. 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

64. I was able to _____ the moment on film.

v. to catch a person or an animal and confine them in an area which they cannot escape

65. She _____ the money from her savings account to her checking account.

v. to move, pass, or change from one person, place, or situation to another

ANSWERS: 58. radiate, 59. primitive, 60. eddy, 61. calm, 62. pixels, 63. recognize, 64. capture, 65. transferred

66. The famous French painters Monet and Renoir were considered pioneers of _____.
- n.* a style of art and literature that seeks to capture the fleeting momentary sensations and impressions of perception rather than objective reality or formal structure
67. She was diagnosed with a _____ buildup in her lungs.
- n.* a substance that can flow and is not solid
68. 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
69. This facility has the largest astronomical _____ in the country.
- n.* a device like a tube in shape containing lenses used to magnify and observe distant objects
70. Maximum heart rates _____ a lot for each individual.
- v.* to become different in terms of size, shape, etc.
71. The _____ surrounding the disappearance of the traveler has yet to be solved by authorities.
- n.* something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest of something; a genre of fiction that involves the solution of a crime or a puzzle
72. The media frequently interviewed _____ scientists.
- adj.* important, well-known, or noticeable
73. Many scientists study _____ behavior and intelligence.
- n.* any mammal of the order Primates, which includes monkeys, apes, and humans

ANSWERS: 66. impressionism, 67. fluid, 68. motto, 69. telescope, 70. vary, 71. mystery, 72. prominent, 73. primate

74. Her husband's death caused her to experience a _____ break.
adj. relating to or characterized by a loss of touch with reality; exhibiting or suffering from a severe mental disorder characterized by delusions, hallucinations, or disordered thinking
75. The fireflies _____ in the darkness.
v. to shine unsteadily or intermittently, as if with a faint light
76. The older man _____ from arthritis and finds it difficult to move around.
v. to experience pain, distress, or hardship; to undergo or endure something painful or unpleasant
77. He is more concerned about the _____ of his body fat than usual because of an upcoming bodybuilding competition.
n. a part, share, or amount of something considered in comparative relation to a whole
78. Einstein was an outstanding and famous _____ of the 20th century.
n. a scientist who specializes in the field of physics
79. It is essential to keep these two issues _____.
adj. noticeable from something else of a similar type
80. The election was a _____ success for the Whigs.
adj. worthy of attention because unusual or special
81. The official transcript contains _____ academic records.
adj. correct and exact in all details

ANSWERS: 74. psychotic, 75. flickered, 76. suffers, 77. proportion, 78. physicist, 79. distinct, 80. remarkable, 81. accurate

82. The case remains _____ after years of investigation.

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

83. The _____ of his idea came from watching birds flying in flocks.

n. a very tiny living that causes the disease; a piece of something such as an organism, concept, etc., capable of growing into a new one or part of one

84. On the geological time scale, _____ has existed for a brief moment.

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

85. 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

86. Most countries prohibit sexual activity between certain close _____.

adj. considered and evaluated through comparison with something else

87. She kept _____ for an ambulance.

v. to give a loud, high shout suddenly, especially because of fear, anger, excitement, etc.; to utter or declare in a very loud voice

88. The _____ of the dancers on stage was graceful and elegant.

n. a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively

89. Her resistance _____ under his persuasion.

v. to turn from something solid into something soft or liquid as a result of heating

ANSWERS: 82. unsolved, 83. germ, 84. humankind, 85. brain, 86. relatives, 87. screaming, 88. movement, 89. melted

90. We can calculate the position of the _____ statistically.

- n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance

91. The chef expertly _____ the sauce onto the plate.

- v.* to move in a circular or spiral pattern

ANSWERS: 90. particles, 91. swirled