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Eric Berlow and Sean Gourley: Mapping ideas worth spreading | TED Talk

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

All Words

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Session 1: Word List

ecologist

n. a person who studies the relationships between living organisms and their environment; the state of being outside or directed toward or relating to the outside or exterior

synonym : conservationist, naturalist

(1) behavioral **ecologist**, (2) forestry **ecologist**

The forestry **ecologist** studied the interactions between the different species in the forest's ecosystem.

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.

complexity

n. the state or quality of being complicated or intricate and difficult to understand

synonym : intricacy, sophistication, elaboration

(1) cognitive **complexity**, (2) **complexity** theory

The project's **complexity** made it difficult for the team to complete it on time.

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**.

ecology

n. the study of the relationships between living organisms, including humans, and their physical environment

(1) science of **ecology**, (2) the **ecology** of the island

Many companies are now enthusiastically embracing the knowledge of **ecology** for sustainable development.

conversation

n. an informal talk between two or more people to exchange their views, ideas, information, etc.

synonym : chat, discussion, dialogue

(1) **conversation** in English, (2) a friendly **conversation**

Your **conversation** reflects your thoughts.

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**.

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.

underlie

v. to be the support, basis, hidden cause of something; to be located under or below

synonym :

govern, control, determine

(1) **underlie** the theory of the big bang, (2) **underlie** the current economic deadlock

His bitter experiences **underlie** his moral principles.

text-to-speech

adj. relating to a computer or software system that converts written text into a spoken audio output

synonym: speech-enabled, read aloud, vocalized

(1) **text-to-speech** software, (2) **text-to-speech** conversion

The **text-to-speech** feature on my phone helps me multitask while on the go.

translate

v. to convert or change words into another language

synonym: convert, transcribe, render

(1) **translate** a document into English, (2) **translate** the emotion to a movement

Translate the text from Italian into English.

transcript

n. a written or printed version of something, especially a dictated or recorded speech, interview, or conversation; an official record of a student's coursework and grades at a school or university

synonym: record, certificate, report

(1) academic **transcript**, (2) official **transcript**

The court reporter was responsible for creating a **transcript** of the trial proceedings.

accent

n. a distinctive way of pronouncing the words of a language that shows which area, country, or social group a person comes from; particular importance or significance

synonym: articulation, inflection, pronunciation

(1) a foreign **accent**, (2) put the **accent** on comfort

She has a thick southern **accent**.

process

n. a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

synonym: procedure, method, system

(1) **process** improvement, (2) decision-making **process**

The **process** for applying for a visa can be lengthy and complicated.

algorithm

n. a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation

synonym: logic, method, rule

(1) the RSA **algorithm**, (2) **algorithm** for image processing

We can evaluate the performance of an **algorithm** in terms of computation time.

extract

n. a short passage taken from a book, piece of music, etc.; a substance obtained from something through a specific process; (verb) to obtain from something or to remove something by effort or force

synonym: excerpt, quote, distillation

(1) a brief **extract** from the book, (2) botanical **extract**

Anesthetize the gum before **extracting** the teeth.

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.

meme

n. a cultural idea, value, or pattern of behavior that is passed from one generation to another by imitation rather than genetic means; (as an Internet meme) an image, a video, a piece of text, etc. that is remixed, copied, and circulated in a shared cultural experience online

synonym: buzzword, trend

(1) pronounce **meme**, (2) religious **meme**

This cute dog's photo spread around the world as an Internet **meme**.

analyze

v. to think about in-depth and evaluate to discover essential features or meaning

synonym: explore, examine, investigate

(1) **analyze** a chemical compound, (2) **analyze** your real motives

The teacher attempted to **analyze** the root cause of our mistake.

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.

graph

n. a picture consisting of a line, lines, points, etc., that shows how two or more sets of certain quantities are related to each other

synonym: chart, diagram, figure

(1) **graph** theory, (2) a **graph** sample

This bar **graph** shows sales over the past five years.

footprint

n. a mark of a foot, shoe, or animal's foot left on a surface

synonym: footmark, imprint, impression

(1) **footprints** in the snow, (2) the **footprints** of an earlier civilization

We choose transportation that has a smaller carbon **footprint**.

explode

v. to burst or break open violently and noisily; to cause something to burst or break open

synonym: detonate, blast, rupture

(1) **explode** in anger, (2) **explode** in popularity
The old building **exploded** in a fiery inferno.

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.

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.

broad

adj. very wide; general

synonym : wide, expansive, comprehensive

(1) attract **broad** attention, (2) a **broad** mind

He accumulated wealth across a **broad** spectrum of assets.

reminiscent

adj. making you remember someone or something; relating to the recall of personal interests

synonym : evocative, remindful, redolent

(1) **reminiscent** of ancient times, (2) **reminiscent** smile

His painting style is **reminiscent** of Monet's

geography

n. a field of science devoted to the study of the lands, features, inhabitants, and phenomena of the Earth

synonym : landscape, terrain, topography

(1) **geography** class, (2) economic **geography**

She did well on her **geography** exam.

dimension

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

synonym :

extent, measurement, size

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

Overall **dimensions** are approximately 400x200mm.

physics

n. the science of matter and energy and their interactions

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

He studied the **physics** of radiation.

engine

n. a machine that converts thermal energy to mechanical work; something that has an important role used to achieve a purpose

synonym: motor, locomotive, driver

(1) a steam **engine**, (2) an air-cooled **engine**

The policies he announces can be the **engine** of economic growth in the country.

smashing

adj. very successful or impressive; causing something to be broken or destroyed

synonym: great, wonderful, breaking

(1) a **smashing** blow, (2) give **smashing** results

The band's new album was a **smashing** success, reaching the top of the charts.

nod

v. to lower and raise one's head, sometimes several times, as to show approval, agreement, greeting, or confirmation

synonym: respond, acknowledge, greet

(1) **nod** at each other, (2) **nod** courteously

She **noded** quietly in response to the question.

interconnect

v. to connect similar things

synonym: interlink, connect, annex

(1) directly **interconnect** with those systems, (2) human activities **interconnect** with the environment

Our system can now **interconnect** with other databases.

absolutely

adv. without restriction or limitation; completely or utterly
synonym: completely, utterly, definitely

(1) **absolutely** against, (2) **absolutely** obsessed with the girl

I am **absolutely** opposed to his idea because of morality.

storytelling

n. the act or art of narrating or writing stories
synonym: narrating, relating, recounting

(1) **storytelling** performance, (2) courtroom **storytelling**

She was skilled in **storytelling** techniques, such as using different voices for other characters.

triangle

n. a three-sided polygon with three angles; something that has three sides or parts
synonym: trilateral, delta, triad

(1) **triangle** shape, (2) love **triangle**

The Pythagorean theorem is used to calculate the length of the sides of a right **triangle**.

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**.

healthcare

n. the organized activity or business of preserving mental and physical health by preventing or treating illness through services offered by the health profession

(1) **healthcare** agency, (2) rising **healthcare** cost

In an aging population, citizens must pay more to maintain quality **healthcare**.

adjacent

adj. next to, close to, or adjoining something
synonym: next, adjoining, neighboring

(1) **adjacent** to his house, (2) **adjacent** houses

Our country has military alliances with **adjacent** countries.

interface

n. (computer science) a program that controls a display for the user and that allows the user to interact with the system; (chemistry) a surface forming a common boundary between two things

synonym: junction, surface, UI

(1) **interface** between gas and liquid, (2) the user **interface**
Detergent weakens the surface tension at the **interface** of two liquids.

cluster

n. a group of similar things or people close together, often forming a distinct mass or unit

synonym: group, aggregation, array

(1) live in a **cluster**, (2) a **cluster** of stars

A **cluster** of grapes hung from the vine.

environment

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

synonym: atmosphere, surroundings, climate

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

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

zoom

v. to move along very quickly; (noun) the act of rising upward into the air

synonym: move quickly, dive, buzz

(1) **zoom** in on a photo, (2) **zoom** lens

He **zoomed** back in time to the soccer game.

resolution

n. a firm decision or determination to do or not do something; the action of solving a problem, dispute, or conflict; the quality of being resolved or determined; the clarity and sharpness of an image or display

synonym: determination, decision, settlement

(1) **resolution** of a conflict, (2) display **resolution**

He made a New Year's **resolution** to exercise more and eat healthier.

compose

v. to write music, poetry, or formal writing; to constitute or make up a whole, or a specified part of it

synonym: compile, constitute, build

(1) **compose** an essay, (2) **compose** my thoughts

The structure is **composed** of three main components.

emerge

v. to move out of or away from something and become visible

synonym: arise, occur, appear

(1) **emerge** as a butterfly, (2) **emerge** from poverty

During colonial eras, new migratory patterns **emerged**.

fractal

n. a complex geometric pattern or shape that repeats itself on smaller and smaller scales, often occurring in nature or mathematical equations

synonym: pattern, design, geometry

(1) **fractal** pattern, (2) **fractal** art

The coastline of Norway is one of the most famous examples of **fractal** geometry in nature.

economy

n. the system by which a country or region produces, manages, and distributes goods and services, including the money and finances involved in these activities; (of an airline) the lowest-priced, most basic option for seating in commercial travel

synonym: finance, trade, business

(1) **economy** of scale, (2) **economy** class

The **economy** of the country is struggling due to the recent political instability.

greenhouse

n. a building with walls and roof made chiefly of transparent material, such as glass, for growing plants in

synonym: conservatory

(1) exotic plants in a **greenhouse**, (2) emissions of **greenhouse** gases

The **greenhouse** effect is a phenomenon that happens naturally.

nuclear

adj. of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy

synonym : atomic

(1) **nuclear** fusion, (2) use of **nuclear** power

Many countries have now agreed to a treaty banning the use of **nuclear** weapons.

fusion

n. the process of combining two or more things to form a single entity

synonym : merger, consolidation, amalgamation

(1) heat **fusion**, (2) **fusion** cuisine

Nuclear **fusion** is a process in which atomic nuclei combine to form heavier nuclei.

resonance

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

synonym : echo, vibration, reverberation

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

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

split

v. to divide, or to make something divide into two or more parts, especially along a particular line

synonym : break, divide, break apart

(1) **split** a bill, (2) **split** a reward equally

Companies often **split** their shares to lower the stock price and encourage investors to buy.

gender

n. the range of characteristics of femininity and masculinity and differentiating between them, especially when considering social and cultural differences rather than differences in biology

synonym : sexuality

(1) **gender-blind** policies, (2) dual **gender**

Cultural norms strongly influence **gender** expectations.

resonate

v. to be filled with a deep echoing sound

synonym: echo, reverberate, resound

(1) deeply **resonate** with the consumers, (2) **resonate** in the same frequency

The sound **resonates** well in this theater.

optimism

n. a feeling or the belief that good things will happen, or the quality of being full of hope and emphasizing the positive aspects of a situation

synonym: positiveness, sanguinity, bullishness

(1) sense of **optimism**, (2) political **optimism**

There is considerable **optimism** that the economy will recover soon.

exciting

adj. causing a lot of interest or excitement

synonym: exhilarating, stimulating, thrilling

(1) **exciting** football player, (2) **exciting** news

The findings of the experiment were both **exciting** and unexpected.

perspective

n. a confident attitude toward something; a particular style of thinking about something

synonym: viewpoint, standpoint, outlook

(1) a **perspective** view, (2) the **perspective** of the battle

His father's death changed his whole **perspective** on life.

simplify

v. to make something more straightforward, more understandable, or easier to do

synonym: streamline, clarify, elucidate

(1) **simplify** my life, (2) **simplify** the process

Please **simplify** your explanation for the children.

gratitude

n. the quality of being thankful; readiness to show appreciation for and to return kindness

synonym: appreciation, thankfulness, indebtedness

(1) a debt of **gratitude**, (2) feelings of **gratitude**

She expressed her **gratitude** towards the kind stranger who helped her.

nutrition

n. the substances or the process that organisms take into their bodies as food for their growth and health

synonym: alimentation, nourishment, sustenance

(1) **nutrition** condition, (2) **nutrition** intake

This food contains all the **nutrition** your dog requires.

pornography

n. materials such as films, photographs, or written descriptions that depict or describe sexual activity graphically or explicitly, often intended to be sexually arousing

synonym: obscenity, indecency, smut

(1) **pornography** addiction, (2) violent **pornography**

The rise of digital technology has made the sharing of **pornography** easier than ever before.

trend

n. a general direction in which something is changing or developing

synonym: direction, movement, tendency

(1) an international **trend**, (2) the **trend** away from television

The oil price continued their downward **trend**.

emerging

adj. starting to exist, mature, or become well-known

synonym: arising, occurring, state-of-the-art

(1) **emerging** country, (2) **emerging** technologies

Emerging technologies have dramatically improved productivity in various industries.

topic

n. a subject that is being discussed or written about

synonym: subject, theme, issue

(1) a serious **topic**, (2) the **topic** of the book

The **topic** of the discussion was the current state of the economy.

digital

adj. processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet

synonym : numerical, computerized, cyber

(1) a **digital** watch, (2) **digital** electronic signature

Sensors convert physical phenomena into **digital** signals.

privacy

n. someone's right to keep their personal matters and relationships not watched or interrupted by other people

synonym : seclusion, aloneness, solitariness

(1) **privacy** abuse, (2) trespass on a person's **privacy**

This conduct would be an invasion of **privacy**.

creative

adj. relating to or involving the use of skill and original and unusual ideas to create something

synonym : imaginative, innovative, inventive

(1) **creative** writing, (2) barren of **creative** spirit

All the supervisor has to do is assign tasks that make his subordinates more **creative**.

bury

v. to place a dead body in the ground, grave, or tomb

synonym : entomb, sink, forget

(1) **bury** in the earth, (2) **bury** emotion

There is plenty of space to **bury** everyone.

bubble

n. a thin, round, and often transparent mass of gas that is surrounded by a thin layer of liquid; a state of economic or social prosperity that is unsustainable and eventually collapses

synonym : blob, balloon, mania

(1) **bubble** in the champagne glass, (2) economic **bubble**

Many people worry that the current real estate market is a **bubble** that could burst soon.

emergent

adj. starting to exist or view, or to become known

synonym : coming, appearing, developing

(1) **emergent** repair of an aorta, (2) an **emergent** republic
Extensive areas of **emergent** plants are usually called marsh.

genetics

n. the branch of biology that studies genes, genetic variation, and heredity in organisms

(1) the science of **genetics**, (2) **genetics** discrimination
He is a specialist in the **genetics** of aging.

discipline

n. the practice of training people to obey rules or a code of behavior, using and punishments if these are broken; a region of activity, knowledge, or influence

synonym: training, restraint, field

(1) break **discipline**, (2) rigid **discipline**
He quickly learned the military **discipline**.

essentially

adv. relating to the essential features or concepts of anything

synonym: fundamentally, basically, virtually

(1) **essentially** correct, (2) become **essentially** same
Essentially, a society is an organism.

remix

v. to compose a piece of media that has been altered or contorted from its original state by adding, removing, or changing elements of the item

synonym: recreate, recompose, alter

(1) **remix** a couple of tracks, (2) **remix** the album
He **remixed** the tracks to give them a jazz feel.

hallmark

n. a distinctive characteristic or attribute of a person or thing

synonym: symbol, authentication, indication

(1) the **hallmark** of a good scientist, (2) the **hallmark** of modern life

A clear and simple expression is the **hallmark** of good writing.

innovation

n. the creation of a new device or process resulting from study and experimentation

synonym: invention, initiation, creation

(1) **innovation** leader, (2) cutting-edge **innovation**

The vegetarian burger was an **innovation** that quickly spread to the United Kingdom.

microbe

n. a tiny living thing that can only be seen with a microscope and that may cause disease

synonym: germ, microorganism, bacterium

(1) pathogenic **microbe**, (2) **microbes** sterilizer

Microbes thrive on the surface of the human skin.

define

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

synonym: characterize, depict, express

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

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

synthetic

adj. made by combining chemical substances as opposed to being naturally occurring

synonym: artificial, manufactured, fabricated

(1) **synthetic** fiber, (2) **synthetic** fertilizer

Synthetic diamonds play an essential role as machine tool blades.

biology

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

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

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

vent

n. a small opening to escape or release gas, air, liquid, etc.; activity or process that frees or expresses strong creative energy or emotion

synonym: duct, outlet, venthole

(1) volcanic **vent**, (2) **vent** tube

He gave **vent** to his anger by playing the guitar.

synthesize

v. to combine a substance to make a more complex product or compound

synonym: incorporate, amalgamate

(1) **synthesize** molecules, (2) **synthesize** information

The spider can **synthesize** multiple different silk proteins.

diversity

n. the quality or fact of many different types of things or people being included in something; a range of different things or people

synonym: variety, multiplicity, variousness

(1) the **diversity** policy of the university, (2) lingual **diversity**

He was impressed by the range and **diversity** of the collection.

violent

adj. involving or caused by physical force or aggression against someone or something

synonym: aggressive, intense, turbulent

(1) victim of a **violent** crime, (2) **violent** incident

The protesters became **violent** when the police tried to disperse them.

stratosphere

n. the second layer of the Earth's atmosphere, extending from about 7 to 50 kilometers above the Earth's surface, containing the ozone layer

synonym: upper atmosphere, ozone layer

(1) **stratosphere** layer, (2) **stratosphere** ozone

The ozone layer, which protects us from harmful UV radiation, is in the **stratosphere**.

index

n. a list of items, such as names, subjects, or keywords, that is arranged in a particular order and is usually found at the end of a book or document; a number or symbol that indicates the value or level of something, such as a stock index or a temperature index

synonym: list, directory, indicator

(1) a full-text **index**, (2) health **index**

The stock market **index** measures the performance of a group of stocks.

apparently

adv. based on what you have heard or read

synonym: evidently, obviously, supposedly

(1) **apparently** simple, (2) **apparently** unrelated

The police **apparently** believed this explanation was plausible.

bacon

n. a type of salt-cured pork that is usually sliced and fried; a meat product that is derived from the back or sides of a pig

synonym: ham, pork belly, gammon

(1) **bacon** and eggs, (2) **bacon** sandwich

I love the smell of **bacon** sizzling in the morning.

motif

n. a recurring element in an artistic or literary work, typically a particular image or idea; a theme that is repeated or elaborated in a piece of music

synonym: theme, pattern, design

(1) animal **motif**, (2) the **motif** of a music piece

The repeating floral **motif** in the wallpaper added a touch of elegance to the room.

disparate

adj. very different or distinct from something else and is not connected or comparable in any way

synonym: different, distinct, separate

(1) **disparate** impact, (2) physically **disparate** location

The organization worked to bring together **disparate** groups in the community.

obsession

n. the state in which a person's mind is filled with thoughts of one single object or particular person

synonym: compulsion, fixation, enthusiasm

(1) **obsession** with character, (2) national **obsession**

Gambling became an **obsession** for him, and he eventually lost everything.

architecture

n. the art and science of designing and constructing buildings

synonym: design, structure, layout

(1) **architecture** design, (2) classic **architecture**

The city is known for its impressive **architecture** and beautiful old buildings.

massive

adj. enormous amount; very heavy and solid

synonym: enormous, giant, immense

(1) **massive** amounts, (2) **massive** stars

The recent economic downturn has resulted in **massive** layoffs.

filter

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

synonym: strainer

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

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

navigate

v. to plan and direct the way that a ship, plane, etc. will travel, often by using a map

synonym: guide, helm, voyage

(1) **navigate** the Pacific, (2) **navigate** through a document

Our knowledge helps **navigate** our clients successfully.

random

adj. made, done, or happening without method, conscious decision, or any regular pattern

synonym: incidental, arbitrary, unanticipated

(1) a **random** choice, (2) bombs fell at **random**

To find drunk drivers, police conduct **random** tests.

Session 2: Spelling

1. the user in _____ce
n. (computer science) a program that controls a display for the user and that allows the user to interact with the system; (chemistry) a surface forming a common boundary between two things
2. z__m lens
v. to move along very quickly; (noun) the act of rising upward into the air
3. trespass on a person's pr_____y
n. someone's right to keep their personal matters and relationships not watched or interrupted by other people
4. fu___n cuisine
n. the process of combining two or more things to form a single entity
5. learn new co_____ts
n. an idea or principle associated with something abstract
6. mi_____es sterilizer
n. a tiny living thing that can only be seen with a microscope and that may cause disease
7. ess_____ly correct
adv. relating to the essential features or concepts of anything
8. re__x a couple of tracks
v. to compose a piece of media that has been altered or contorted from its original state by adding, removing, or changing elements of the item
9. a full-text in__x
n. a list of items, such as names, subjects, or keywords, that is arranged in a particular order and is usually found at the end of a book or document; a number or symbol that indicates the value or level of something, such as a stock index or a temperature index

ANSWERS: 1. interface, 2. zoom, 3. privacy, 4. fusion, 5. concept, 6. microbe, 7. essentially, 8. remix, 9. index

10. clogged fi___r *n.* any of several types of equipment or systems used to separate particles from liquids or gases or to remove specific forms of light
11. tex_____ech software *adj.* relating to a computer or software system that converts written text into a spoken audio output
12. a friendly con_____ion *n.* an informal talk between two or more people to exchange their views, ideas, information, etc.
13. emissions of gre_____se gases *n.* a building with walls and roof made chiefly of transparent material, such as glass, for growing plants in
14. syn_____ze molecules *v.* to combine a substance to make a more complex product or compound
15. laws of ph_____s *n.* the science of matter and energy and their interactions
16. the mo__f of a music piece *n.* a recurring element in an artistic or literary work, typically a particular image or idea; a theme that is repeated or elaborated in a piece of music
17. chaotic env_____nt *n.* the natural world such as air, water, and land in which humans, animals, and plants live
18. nu_____r fusion *adj.* of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy
19. basic br__n function *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling

ANSWERS: 10. filter, 11. text-to-speech, 12. conversation, 13. greenhouse, 14. synthesize, 15. physics, 16. motif, 17. environment, 18. nuclear, 19. brain

20. a steam en___e *n.* a machine that converts thermal energy to mechanical work; something that has an important role used to achieve a purpose
21. ma_____e stars *adj.* enormous amount; very heavy and solid
22. em___e from poverty *v.* to move out of or away from something and become visible
23. the ha_____rk of modern life *n.* a distinctive characteristic or attribute of a person or thing
24. str_____ere ozone *n.* the second layer of the Earth's atmosphere, extending from about 7 to 50 kilometers above the Earth's surface, containing the ozone layer
25. z__m in on a photo *v.* to move along very quickly; (noun) the act of rising upward into the air
26. ad_____nt houses *adj.* next to, close to, or adjoining something
27. pr_____y abuse *n.* someone's right to keep their personal matters and relationships not watched or interrupted by other people
28. barren of cr_____ve spirit *adj.* relating to or involving the use of skill and original and unusual ideas to create something
29. 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
30. ra_____e in all directions *v.* to spread out or emit something, such as light or heat, in all directions

ANSWERS: 20. engine, 21. massive, 22. emerge, 23. hallmark, 24. stratosphere, 25. zoom, 26. adjacent, 27. privacy, 28. creative, 29. discovery, 30. radiate

31. gr__h theory *n.* a picture consisting of a line, lines, points, etc., that shows how two or more sets of certain quantities are related to each other
32. a per_____ve view *n.* a confident attitude toward something; a particular style of thinking about something
33. nuclear ph_____s *n.* the science of matter and energy and their interactions
34. di_____l electronic signature *adj.* processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet
35. rigid dis_____ne *n.* the practice of training people to obey rules or a code of behavior, using and punishments if these are broken; a region of activity, knowledge, or influence
36. decision-making pr_____s *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
37. feelings of gr_____de *n.* the quality of being thankful; readiness to show appreciation for and to return kindness

ANSWERS: 31. graph, 32. perspective, 33. physics, 34. digital, 35. discipline, 36. process, 37. gratitude

38. official tra_____pt *n.* a written or printed version of something, especially a dictated or recorded speech, interview, or conversation; an official record of a student's coursework and grades at a school or university
39. na_____te through a document *v.* to plan and direct the way that a ship, plane, etc. will travel, often by using a map
40. in_____ce between gas and liquid *n.* (computer science) a program that controls a display for the user and that allows the user to interact with the system; (chemistry) a surface forming a common boundary between two things
41. em___e as a butterfly *v.* to move out of or away from something and become visible
42. live in a cl_____r *n.* a group of similar things or people close together, often forming a distinct mass or unit
43. str_____ere layer *n.* the second layer of the Earth's atmosphere, extending from about 7 to 50 kilometers above the Earth's surface, containing the ozone layer
44. ex_____e in anger *v.* to burst or break open violently and noisily; to cause something to burst or break open
45. b__y emotion *v.* to place a dead body in the ground, grave, or tomb
46. science of ec_____y *n.* the study of the relationships between living organisms, including humans, and their physical environment

ANSWERS: 38. transcript, 39. navigate, 40. interface, 41. emerge, 42. cluster, 43. stratosphere, 44. explode, 45. bury, 46. ecology

47. a good grounding in mat_____cs *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
48. ge_____hy class *n.* a field of science devoted to the study of the lands, features, inhabitants, and phenomena of the Earth
49. sto_____ing performance *n.* the act or art of narrating or writing stories
50. rem_____nt of ancient times *adj.* making you remember someone or something; relating to the recall of personal interests
51. re_____te in the same frequency *v.* to be filled with a deep echoing sound
52. become ess_____ly same *adv.* relating to the essential features or concepts of anything
53. give sm_____ng results *adj.* very successful or impressive; causing something to be broken or destroyed
54. economic bu____e *n.* a thin, round, and often transparent mass of gas that is surrounded by a thin layer of liquid; a state of economic or social prosperity that is unsustainable and eventually collapses
55. evolutionary bi_____y *n.* the scientific study of life and the natural processes of living things
56. si_____fy my life *v.* to make something more straightforward, more understandable, or easier to do
57. health in__x *n.* a list of items, such as names, subjects, or keywords, that is arranged in a particular order and is usually found at the end of a book or document; a number or symbol that indicates the value or level of something, such as a stock index or a temperature index

ANSWERS: 47. mathematics, 48. geography, 49. storytelling, 50. reminiscent, 51. resonate, 52. essentially, 53. smashing, 54. bubble, 55. biology, 56. simplify, 57. index

58. fr____l pattern *n.* a complex geometric pattern or shape that repeats itself on smaller and smaller scales, often occurring in nature or mathematical equations
59. ba__n and eggs *n.* a type of salt-cured pork that is usually sliced and fried; a meat product that is derived from the back or sides of a pig
60. ec____y of scale *n.* the system by which a country or region produces manages, and distributes goods and services, including the money and finances involved in these activities; (of an airline) the lowest-priced, most basic option for seating in commercial travel
61. a brief ex____t from the book *n.* a short passage taken from a book, piece of music, etc.; a substance obtained from something through a specific process; (verb) to obtain from something or to remove something by effort or force
62. political op____sm *n.* a feeling or the belief that good things will happen, or the quality of being full of hope and emphasizing the positive aspects of a situation
63. tr____te a document into English *v.* to convert or change words into another language
64. co____e an essay *v.* to write music, poetry, or formal writing; to constitute or make up a whole, or a specified part of it
65. fr____l art *n.* a complex geometric pattern or shape that repeats itself on smaller and smaller scales, often occurring in nature or mathematical equations

ANSWERS: 58. fractal, 59. bacon, 60. economy, 61. extract, 62. optimism, 63. translate, 64. compose, 65. fractal

66. re__x the album *v.* to compose a piece of media that has been altered or contorted from its original state by adding, removing, or changing elements of the item
67. app_____ly simple *adv.* based on what you have heard or read
68. bombs fell at ra___m *adj.* made, done, or happening without method, conscious decision, or any regular pattern
69. pronounce m__e *n.* a cultural idea, value, or pattern of behavior that is passed from one generation to another by imitation rather than genetic means; (as an Internet meme) an image, a video, a piece of text, etc. that is remixed, copied, and circulated in a shared cultural experience online
70. violent por_____hy *n.* materials such as films, photographs, or written descriptions that depict or describe sexual activity graphically or explicitly, often intended to be sexually arousing
71. the ec_____y of the island *n.* the study of the relationships between living organisms, including humans, and their physical environment
72. classic arc_____ure *n.* the art and science of designing and constructing buildings
73. na_____te the Pacific *v.* to plan and direct the way that a ship, plane, etc. will travel, often by using a map

ANSWERS: 66. remix, 67. apparently, 68. random, 69. meme, 70. pornography, 71. ecology, 72. architecture, 73. navigate

74. 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
75. em_____ng technologies *adj.* starting to exist, mature, or become well-known
76. cell and molecular bi_____y *n.* the scientific study of life and the natural processes of living things
77. an_____e your real motives *v.* to think about in-depth and evaluate to discover essential features or meaning
78. pr_____s improvement *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
79. attract br__d attention *adj.* very wide; general
80. 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
81. sy_____ic fiber *adj.* made by combining chemical substances as opposed to being naturally occurring
82. victim of a vi_____t crime *adj.* involving or caused by physical force or aggression against someone or something

ANSWERS: 74. structure, 75. emerging, 76. biology, 77. analyze, 78. process, 79. broad, 80. discovery, 81. synthetic, 82. violent

83. de___e a word *v.* to state or explain precisely the nature, scope, or meaning of something
84. cr____ve writing *adj.* relating to or involving the use of skill and original and unusual ideas to create something
85. a debt of gr____de *n.* the quality of being thankful; readiness to show appreciation for and to return kindness
86. nu____on condition *n.* the substances or the process that organisms take into their bodies as food for their growth and health
87. co____t car *n.* an idea or principle associated with something abstract
88. lingual di____ty *n.* the quality or fact of many different types of things or people being included in something; a range of different things or people
89. put the ac___t on comfort *n.* a distinctive way of pronouncing the words of a language that shows which area, country, or social group a person comes from; particular importance or significance
90. n_d courteously *v.* to lower and raise one's head, sometimes several times, as to show approval, agreement, greeting, or confirmation
91. co____e my thoughts *v.* to write music, poetry, or formal writing; to constitute or make up a whole, or a specified part of it

ANSWERS: 83. define, 84. creative, 85. gratitude, 86. nutrition, 87. concept, 88. diversity, 89. accent, 90. nod, 91. compose

92. ex____ng football player *adj.* causing a lot of interest or excitement
93. botanical ex____t *n.* a short passage taken from a book, piece of music, etc.; a substance obtained from something through a specific process; (verb) to obtain from something or to remove something by effort or force
94. a br__d mind *adj.* very wide; general
95. an international tr__d *n.* a general direction in which something is changing or developing
96. a serious to__c *n.* a subject that is being discussed or written about
97. talented ph____st *n.* a scientist who specializes in the field of physics
98. gas fi____r *n.* any of several types of equipment or systems used to separate particles from liquids or gases or to remove specific forms of light
99. volcanic v__t *n.* a small opening to escape or release gas, air, liquid, etc.; activity or process that frees or expresses strong creative energy or emotion
100. rising hea____re cost *n.* the organized activity or business of preserving mental and physical health by preventing or treating illness through services offered by the health profession
101. n_d at each other *v.* to lower and raise one's head, sometimes several times, as to show approval, agreement, greeting, or confirmation

ANSWERS: 92. exciting, 93. extract, 94. broad, 95. trend, 96. topic, 97. physicist, 98. filter, 99. vent, 100. healthcare, 101. nod

102. the fo_____nts of an earlier civilization *n.* a mark of a foot, shoe, or animal's foot left on a surface
103. pathogenic mi_____e *n.* a tiny living thing that can only be seen with a microscope and that may cause disease
104. ob_____on with character *n.* the state in which a person's mind is filled with thoughts of one single object or particular person
105. abs_____ly against *adv.* without restriction or limitation; completely or utterly
106. permanent br__n damage *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
107. human activities int_____ect with the environment *v.* to connect similar things
108. tr_____te the emotion to a movement *v.* to convert or change words into another language
109. academic tra_____pt *n.* a written or printed version of something, especially a dictated or recorded speech, interview, or conversation; an official record of a student's coursework and grades at a school or university
110. exotic plants in a gre_____se *n.* a building with walls and roof made chiefly of transparent material, such as glass, for growing plants in
111. sense of op_____sm *n.* a feeling or the belief that good things will happen, or the quality of being full of hope and emphasizing the positive aspects of a situation

ANSWERS: 102. footprint, 103. microbe, 104. obsession, 105. absolutely, 106. brain, 107. interconnect, 108. translate, 109. transcript, 110. greenhouse, 111. optimism

112. the di_____ty policy of the university *n.* the quality or fact of many different types of things or people being included in something; a range of different things or people
113. b__y in the earth *v.* to place a dead body in the ground, grave, or tomb
114. al_____hm for image processing *n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation
115. vi_____t incident *adj.* involving or caused by physical force or aggression against someone or something
116. tex_____ech conversion *adj.* relating to a computer or software system that converts written text into a spoken audio output
117. em_____ng country *adj.* starting to exist, mature, or become well-known
118. env_____nt affairs *n.* the natural world such as air, water, and land in which humans, animals, and plants live
119. dual ge____r *n.* the range of characteristics of femininity and masculinity and differentiating between them, especially when considering social and cultural differences rather than differences in biology
120. ge____r-blind policies *n.* the range of characteristics of femininity and masculinity and differentiating between them, especially when considering social and cultural differences rather than differences in biology

ANSWERS: 112. diversity, 113. bury, 114. algorithm, 115. violent, 116. text-to-speech, 117. emerging, 118. environment, 119. gender, 120. gender

121. hea_____re agency *n.* the organized activity or business of preserving mental and physical health by preventing or treating illness through services offered by the health profession
122. di_____te impact *adj.* very different or distinct from something else and is not connected or comparable in any way
123. v__t tube *n.* a small opening to escape or release gas, air, liquid, etc.; activity or process that frees or expresses strong creative energy or emotion
124. harmonic re_____ce *n.* a deep, full, or reverberating sound or tone; a quality or feeling of a particular emotional or mental vibration or significance; a mutual or sympathetic connection or correspondence between two things
125. arc_____ure design *n.* the art and science of designing and constructing buildings
126. economic ge_____hy *n.* a field of science devoted to the study of the lands, features, inhabitants, and phenomena of the Earth
127. ma_____e amounts *adj.* enormous amount; very heavy and solid
128. syn_____ze information *v.* to combine a substance to make a more complex product or compound
129. behavioral ec_____st *n.* a person who studies the relationships between living organisms and their environment; the state of being outside or directed toward or relating to the outside or exterior

ANSWERS: 121. healthcare, 122. disparate, 123. vent, 124. resonance, 125. architecture, 126. geography, 127. massive, 128. synthesise, 129. ecologist

130. an air-cooled en___e *n.* a machine that converts thermal energy to mechanical work; something that has an important role used to achieve a purpose
131. national ob_____on *n.* the state in which a person's mind is filled with thoughts of one single object or particular person
132. app_____ly unrelated *adv.* based on what you have heard or read
133. nu_____on intake *n.* the substances or the process that organisms take into their bodies as food for their growth and health
134. ad_____nt to his house *adj.* next to, close to, or adjoining something
135. the ha_____rk of a good scientist *n.* a distinctive characteristic or attribute of a person or thing
136. the to__c of the book *n.* a subject that is being discussed or written about
137. ou_____d cheerfulness *adj.* relating to the external appearance or surface of something; visible
138. an em_____nt republic *adj.* starting to exist or view, or to become known
139. animal mo__f *n.* a recurring element in an artistic or literary work, typically a particular image or idea; a theme that is repeated or elaborated in a piece of music
140. the per_____ve of the battle *n.* a confident attitude toward something; a particular style of thinking about something
141. religious m__e *n.* a cultural idea, value, or pattern of behavior that is passed from one generation to another by imitation rather than genetic means; (as an Internet meme) an image, a video, a piece of text, etc. that is remixed, copied, and circulated in a shared cultural experience online

ANSWERS: 130. engine, 131. obsession, 132. apparently, 133. nutrition, 134.

adjacent, 135. hallmark, 136. topic, 137. outward, 138. emergent, 139. motif, 140.
perspective, 141. meme

142. con_____ion in English *n.* an informal talk between two or more people to exchange their views, ideas, information, etc.
143. re_____nt by a diagram *v.* to speak, act, or be present on behalf of another person or group; to form or constitute
144. use of nu_____r power *adj.* of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy
145. un_____ie the current economic deadlock *v.* to be the support, basis, hidden cause of something; to be located under or below
146. fo_____nts in the snow *n.* a mark of a foot, shoe, or animal's foot left on a surface
147. rem_____nt smile *adj.* making you remember someone or something; relating to the recall of personal interests
148. a sm_____ng blow *adj.* very successful or impressive; causing something to be broken or destroyed
149. si_____fy the process *v.* to make something more straightforward, more understandable, or easier to do
150. mat_____cs competition *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
151. heat fu_____n *n.* the process of combining two or more things to form a single entity
152. ex_____e in popularity *v.* to burst or break open violently and noisily; to cause something to burst or break open

ANSWERS: 142. conversation, 143. represent, 144. nuclear, 145. underlie, 146. footprint, 147. reminiscent, 148. smashing, 149. simplify, 150. mathematics, 151. fusion, 152. explode

153. abs_____ly obsessed with the girl *adv.* without restriction or limitation; completely or utterly
154. break dis_____ne *n.* the practice of training people to obey rules or a code of behavior, using and punishments if these are broken; a region of activity, knowledge, or influence
155. a foreign ac____t *n.* a distinctive way of pronouncing the words of a language that shows which area, country, or social group a person comes from; particular importance or significance
156. inn_____on leader *n.* the creation of a new device or process resulting from study and experimentation
157. theoretical ph_____st *n.* a scientist who specializes in the field of physics
158. deeply re_____te with the consumers *v.* to be filled with a deep echoing sound
159. display res_____on *n.* a firm decision or determination to do or not do something; the action of solving a problem, dispute, or conflict; the quality of being resolved or determined; the clarity and sharpness of an image or display
160. ge_____cs discrimination *n.* the branch of biology that studies genes, genetic variation, and heredity in organisms
161. cutting-edge inn_____on *n.* the creation of a new device or process resulting from study and experimentation

ANSWERS: 153. absolutely, 154. discipline, 155. accent, 156. innovation, 157. physicist, 158. resonate, 159. resolution, 160. genetics, 161. innovation

162. re_____ce frequency *n.* a deep, full, or reverberating sound or tone; a quality or feeling of a particular emotional or mental vibration or significance; a mutual or sympathetic connection or correspondence between two things
163. 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
164. ex_____ng news *adj.* causing a lot of interest or excitement
165. a ra_____m choice *adj.* made, done, or happening without method, conscious decision, or any regular pattern
166. cognitive com_____ty *n.* the state or quality of being complicated or intricate and difficult to understand
167. por_____hy addiction *n.* materials such as films, photographs, or written descriptions that depict or describe sexual activity graphically or explicitly, often intended to be sexually arousing
168. a cl_____r of stars *n.* a group of similar things or people close together, often forming a distinct mass or unit
169. the tr__d away from television *n.* a general direction in which something is changing or developing
170. bu___e in the champagne glass *n.* a thin, round, and often transparent mass of gas that is surrounded by a thin layer of liquid; a state of economic or social prosperity that is unsustainable and eventually collapses

ANSWERS: 162. resonance, 163. structure, 164. exciting, 165. random, 166. complexity, 167. pornography, 168. cluster, 169. trend, 170. bubble

171. ec____y class *n.* the system by which a country or region produces manages, and distributes goods and services, including the money and finances involved in these activities; (of an airline) the lowest-priced, most basic option for seating in commercial travel
172. an ou____d journey *adj.* relating to the external appearance or surface of something; visible
173. res_____on of a conflict *n.* a firm decision or determination to do or not do something; the action of solving a problem, dispute, or conflict; the quality of being resolved or determined; the clarity and sharpness of an image or display
174. a di_____l watch *adj.* processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet
175. the crosswise di_____on *n.* a measurable extent of a particular kind, such as width, height, or length
176. com_____ty theory *n.* the state or quality of being complicated or intricate and difficult to understand
177. un_____ie the theory of the big bang *v.* to be the support, basis, hidden cause of something; to be located under or below
178. directly int_____ect with those systems *v.* to connect similar things

ANSWERS: 171. economy, 172. outward, 173. resolution, 174. digital, 175. dimension, 176. complexity, 177. underlie, 178. interconnect

179. ba__n sandwich *n.* a type of salt-cured pork that is usually sliced and fried; a meat product that is derived from the back or sides of a pig
180. sp__t a reward equally *v.* to divide, or to make something divide into two or more parts, especially along a particular line
181. the characters that re_____nt numbers *v.* to speak, act, or be present on behalf of another person or group; to form or constitute
182. physically di_____te location *adj.* very different or distinct from something else and is not connected or comparable in any way
183. sp__t a bill *v.* to divide, or to make something divide into two or more parts, especially along a particular line
184. an_____e a chemical compound *v.* to think about in-depth and evaluate to discover essential features or meaning
185. sy_____ic fertilizer *adj.* made by combining chemical substances as opposed to being naturally occurring
186. a gr__h sample *n.* a picture consisting of a line, lines, points, etc., that shows how two or more sets of certain quantities are related to each other
187. love tr_____le *n.* a three-sided polygon with three angles; something that has three sides or parts
188. forestry ec_____st *n.* a person who studies the relationships between living organisms and their environment; the state of being outside or directed toward or relating to the outside or exterior

ANSWERS: 179. bacon, 180. split, 181. represent, 182. disparate, 183. split, 184. analyze, 185. synthetic, 186. graph, 187. triangle, 188. ecologist

189. tr____le shape *n.* a three-sided polygon with three angles; something that has three sides or parts
190. de___e my position *v.* to state or explain precisely the nature, scope, or meaning of something
191. courtroom sto_____ing *n.* the act or art of narrating or writing stories
192. the science of ge_____cs *n.* the branch of biology that studies genes, genetic variation, and heredity in organisms
193. new di_____on *n.* a measurable extent of a particular kind, such as width, height, or length
194. ra_____e an aura *v.* to spread out or emit something, such as light or heat, in all directions
195. em_____nt repair of an aorta *adj.* starting to exist or view, or to become known
196. the RSA al_____hm *n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation

ANSWERS: 189. triangle, 190. define, 191. storytelling, 192. genetics, 193. dimension, 194. radiate, 195. emergent, 196. algorithm

Session 3: Fill in the Blanks

1. The recent economic downturn has resulted in _____ layoffs.
adj. enormous amount; very heavy and solid
2. The organization worked to bring together _____ groups in the community.
adj. very different or distinct from something else and is not connected or comparable in any way
3. He has a flair for _____.
n. the science dealing with the logic of quantities, shapes, spaces, and arrangement
4. He made a New Year's _____ to exercise more and eat healthier.
n. a firm decision or determination to do or not do something; the action of solving a problem, dispute, or conflict; the quality of being resolved or determined; the clarity and sharpness of an image or display
5. One such rapidly growing _____ is quantum cryptography.
n. an idea or principle associated with something abstract
6. Many people worry that the current real estate market is a _____ that could burst soon.
n. a thin, round, and often transparent mass of gas that is surrounded by a thin layer of liquid; a state of economic or social prosperity that is unsustainable and eventually collapses
7. His bitter experiences _____ his moral principles.
v. to be the support, basis, hidden cause of something; to be located under or below

ANSWERS: 1. massive, 2. disparate, 3. mathematics, 4. resolution, 5. concept, 6. bubble, 7. underlie

8. This food contains all the _____ your dog requires.
n. the substances or the process that organisms take into their bodies as food for their growth and health
9. The _____ for applying for a visa can be lengthy and complicated.
n. a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
10. _____ a society is an organism.
adv. relating to the essential features or concepts of anything
11. To find drunk drivers, police conduct _____ tests.
adj. made, done, or happening without method, conscious decision, or any regular pattern
12. Our country has military alliances with _____ countries.
adj. next to, close to, or adjoining something
13. This conduct would be an invasion of _____.
n. someone's right to keep their personal matters and relationships not watched or interrupted by other people
14. Every human is responsible for taking care of the Earth's _____.
n. the natural world such as air, water, and land in which humans, animals, and plants live
15. 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

ANSWERS: 8. nutrition, 9. process, 10. Essentially, 11. random, 12. adjacent, 13. privacy, 14. environment, 15. brain

16. The repeating floral _____ in the wallpaper added a touch of elegance to the room.
- n.* a recurring element in an artistic or literary work, typically a particular image or idea; a theme that is repeated or elaborated in a piece of music
17. Einstein was an outstanding and famous _____ of the 20th century.
- n.* a scientist who specializes in the field of physics
18. 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
19. He _____ back in time to the soccer game.
- v.* to move along very quickly; (noun) the act of rising upward into the air
20. The stock market _____ measures the performance of a group of stocks.
- n.* a list of items, such as names, subjects, or keywords, that is arranged in a particular order and is usually found at the end of a book or document; a number or symbol that indicates the value or level of something, such as a stock index or a temperature index
21. The singer's voice filled the auditorium with beautiful _____.
- n.* a deep, full, or reverberating sound or tone; a quality or feeling of a particular emotional or mental vibration or significance; a mutual or sympathetic connection or correspondence between two things
22. The _____ feature on my phone helps me multitask while on the go.
- adj.* relating to a computer or software system that converts written text into a spoken audio output

ANSWERS: 16. motif, 17. physicist, 18. outward, 19. zoomed, 20. index, 21. resonance, 22. text-to-speech

23. The band's new album was a _____ success, reaching the top of the charts.
adj. very successful or impressive; causing something to be broken or destroyed
24. She _____ quietly in response to the question.
v. to lower and raise one's head, sometimes several times, as to show approval, agreement, greeting, or confirmation
25. I love the smell of _____ sizzling in the morning.
n. a type of salt-cured pork that is usually sliced and fried; a meat product that is derived from the back or sides of a pig
26. The court reporter was responsible for creating a _____ of the trial proceedings.
n. a written or printed version of something, especially a dictated or recorded speech, interview, or conversation; an official record of a student's coursework and grades at a school or university
27. The ozone layer, which protects us from harmful UV radiation, is in the _____.
n. the second layer of the Earth's atmosphere, extending from about 7 to 50 kilometers above the Earth's surface, containing the ozone layer
28. The Pythagorean theorem is used to calculate the length of the sides of a right _____.
n. a three-sided polygon with three angles; something that has three sides or parts
29. In junior high school, we had to dissect a frog in _____ class.
n. the scientific study of life and the natural processes of living things

ANSWERS: 23. smashing, 24. nodded, 25. bacon, 26. transcript, 27. stratosphere, 28. triangle, 29. biology

30. _____ the text from Italian into English.
v. to convert or change words into another language
31. The old building _____ in a fiery inferno.
v. to burst or break open violently and noisily; to cause something to burst or break open
32. Cultural norms strongly influence _____ expectations.
n. the range of characteristics of femininity and masculinity and differentiating between them, especially when considering social and cultural differences rather than differences in biology
33. Our system can now _____ with other databases.
v. to connect similar things
34. The police _____ believed this explanation was plausible.
adv. based on what you have heard or read
35. 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
36. The _____ of the discussion was the current state of the economy.
n. a subject that is being discussed or written about
37. The teacher attempted to _____ the root cause of our mistake.
v. to think about in-depth and evaluate to discover essential features or meaning
38. Your _____ reflects your thoughts.
n. an informal talk between two or more people to exchange their views, ideas, information, etc.

ANSWERS: 30. Translate, 31. exploded, 32. gender, 33. interconnect, 34. apparently, 35. radiate, 36. topic, 37. analyze, 38. conversation

39. The policies he announces can be the _____ of economic growth in the country.
- n.* a machine that converts thermal energy to mechanical work; something that has an important role used to achieve a purpose
40. Anesthetize the gum before _____ the teeth.
- n.* a short passage taken from a book, piece of music, etc.; a substance obtained from something through a specific process; (verb) to obtain from something or to remove something by effort or force
41. Ozone is a primary _____ to protect Earth's surface from harmful UV rays.
- n.* any of several types of equipment or systems used to separate particles from liquids or gases or to remove specific forms of light
42. He is a specialist in the _____ of aging.
- n.* the branch of biology that studies genes, genetic variation, and heredity in organisms
43. The _____ effect is a phenomenon that happens naturally.
- n.* a building with walls and roof made chiefly of transparent material, such as glass, for growing plants in
44. Nuclear _____ is a process in which atomic nuclei combine to form heavier nuclei.
- n.* the process of combining two or more things to form a single entity
45. _____ thrive on the surface of the human skin.
- n.* a tiny living thing that can only be seen with a microscope and that may cause disease

ANSWERS: 39. engine, 40. extracting, 41. filter, 42. genetics, 43. greenhouse, 44. fusion, 45. Microbes

46. There is plenty of space to _____ everyone.

v. to place a dead body in the ground, grave, or tomb

47. He was impressed by the range and _____ of the collection.

n. the quality or fact of many different types of things or people being included in something; a range of different things or people

48. She did well on her _____ exam.

n. a field of science devoted to the study of the lands, features, inhabitants, and phenomena of the Earth

49. Gambling became an _____ for him, and he eventually lost everything.

n. the state in which a person's mind is filled with thoughts of one single object or particular person

50. The spider can _____ multiple different silk proteins.

v. to combine a substance to make a more complex product or compound

51. We can evaluate the performance of an _____ in terms of computation time.

n. a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation

52. The _____ of the country is struggling due to the recent political instability.

n. the system by which a country or region produces, manages, and distributes goods and services, including the money and finances involved in these activities; (of an airline) the lowest-priced, most basic option for seating in commercial travel

53. The city is known for its impressive _____ and beautiful old buildings.

n. the art and science of designing and constructing buildings

ANSWERS: 46. bury, 47. diversity, 48. geography, 49. obsession, 50. synthesize, 51. algorithm, 52. economy, 53. architecture

54. He gave _____ to his anger by playing the guitar.
- n.* a small opening to escape or release gas, air, liquid, etc.; activity or process that frees or expresses strong creative energy or emotion
55. She expressed her _____ towards the kind stranger who helped her.
- n.* the quality of being thankful; readiness to show appreciation for and to return kindness
56. 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
57. I am _____ opposed to his idea because of morality.
- adv.* without restriction or limitation; completely or utterly
58. The protesters became _____ when the police tried to disperse them.
- adj.* involving or caused by physical force or aggression against someone or something
59. His father's death changed his whole _____ on life.
- n.* a confident attitude toward something; a particular style of thinking about something
60. The structure is _____ of three main components.
- v.* to write music, poetry, or formal writing; to constitute or make up a whole, or a specified part of it
61. There is considerable _____ that the economy will recover soon.
- n.* a feeling or the belief that good things will happen, or the quality of being full of hope and emphasizing the positive aspects of a situation

ANSWERS: 54. vent, 55. gratitude, 56. discovery, 57. absolutely, 58. violent, 59. perspective, 60. composed, 61. optimism

62. The oil price continued their downward _____.
- n.* a general direction in which something is changing or developing
63. He studied the _____ of radiation.
- n.* the science of matter and energy and their interactions
64. The vegetarian burger was an _____ that quickly spread to the United Kingdom.
- n.* the creation of a new device or process resulting from study and experimentation
65. 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
66. A clear and simple expression is the _____ of good writing.
- n.* a distinctive characteristic or attribute of a person or thing
67. During colonial eras, new migratory patterns _____.
- v.* to move out of or away from something and become visible
68. We choose transportation that has a smaller carbon _____.
- n.* a mark of a foot, shoe, or animal's foot left on a surface
69. Overall _____ are approximately 400x200mm.
- n.* a measurable extent of a particular kind, such as width, height, or length
70. _____ technologies have dramatically improved productivity in various industries.
- adj.* starting to exist, mature, or become well-known

ANSWERS: 62. trend, 63. physics, 64. innovation, 65. represent, 66. hallmark, 67. emerged, 68. footprint, 69. dimensions, 70. Emerging

71. Many companies are now enthusiastically embracing the knowledge of _____ for sustainable development.
- n.* the study of the relationships between living organisms, including humans, and their physical environment
72. A _____ of grapes hung from the vine.
- n.* a group of similar things or people close together, often forming a distinct mass or unit
73. She was skilled in _____ techniques, such as using different voices for other characters.
- n.* the act or art of narrating or writing stories
74. This bar _____ shows sales over the past five years.
- n.* a picture consisting of a line, lines, points, etc., that shows how two or more sets of certain quantities are related to each other
75. The coastline of Norway is one of the most famous examples of _____ geometry in nature.
- n.* a complex geometric pattern or shape that repeats itself on smaller and smaller scales, often occurring in nature or mathematical equations
76. To advance this discussion, we must _____ "success" rigorously.
- v.* to state or explain precisely the nature, scope, or meaning of something
77. Companies often _____ their shares to lower the stock price and encourage investors to buy.
- v.* to divide, or to make something divide into two or more parts, especially along a particular line

ANSWERS: 71. ecology, 72. cluster, 73. storytelling, 74. graph, 75. fractal, 76. define, 77. split

78. Detergent weakens the surface tension at the _____ of two liquids.
n. (computer science) a program that controls a display for the user and that allows the user to interact with the system; (chemistry) a surface forming a common boundary between two things
79. She has a thick southern _____.
n. a distinctive way of pronouncing the words of a language that shows which area, country, or social group a person comes from; particular importance or significance
80. Please _____ your explanation for the children.
v. to make something more straightforward, more understandable, or easier to do
81. He quickly learned the military _____.
n. the practice of training people to obey rules or a code of behavior, using and punishments if these are broken; a region of activity, knowledge, or influence
82. _____ diamonds play an essential role as machine tool blades.
adj. made by combining chemical substances as opposed to being naturally occurring
83. In an aging population, citizens must pay more to maintain quality _____.
n. the organized activity or business of preserving mental and physical health by preventing or treating illness through services offered by the health profession
84. The project's _____ made it difficult for the team to complete it on time.
n. the state or quality of being complicated or intricate and difficult to understand
85. His painting style is _____ of Monet's
adj. making you remember someone or something; relating to the recall of personal interests

ANSWERS: 78. interface, 79. accent, 80. simplify, 81. discipline, 82. Synthetic, 83. healthcare, 84. complexity, 85. reminiscent

86. This cute dog's photo spread around the world as an Internet _____.
- n.* a cultural idea, value, or pattern of behavior that is passed from one generation to another by imitation rather than genetic means; (as an Internet meme) an image, a video, a piece of text, etc. that is remixed, copied, and circulated in a shared cultural experience online
87. The forestry _____ studied the interactions between the different species in the forest's ecosystem.
- n.* a person who studies the relationships between living organisms and their environment; the state of being outside or directed toward or relating to the outside or exterior
88. Our knowledge helps _____ our clients successfully.
- v.* to plan and direct the way that a ship, plane, etc. will travel, often by using a map
89. The sound _____ well in this theater.
- v.* to be filled with a deep echoing sound
90. He accumulated wealth across a _____ spectrum of assets.
- adj.* very wide; general
91. Many countries have now agreed to a treaty banning the use of _____ weapons.
- adj.* of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy
92. The rise of digital technology has made the sharing of _____ easier than ever before.
- n.* materials such as films, photographs, or written descriptions that depict or describe sexual activity graphically or explicitly, often intended to be sexually arousing

ANSWERS: 86. meme, 87. ecologist, 88. navigate, 89. resonates, 90. broad, 91. nuclear, 92. pornography

93. 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
94. Sensors convert physical phenomena into _____ signals.
adj. processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet
95. Extensive areas of _____ plants are usually called marsh.
adj. starting to exist or view, or to become known
96. He _____ the tracks to give them a jazz feel.
v. to compose a piece of media that has been altered or contorted from its original state by adding, removing, or changing elements of the item
97. The findings of the experiment were both _____ and unexpected.
adj. causing a lot of interest or excitement
98. All the supervisor has to do is assign tasks that make his subordinates more _____.
adj. relating to or involving the use of skill and original and unusual ideas to create something

ANSWERS: 93. structure, 94. digital, 95. emergent, 96. remixed, 97. exciting, 98. creative