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Vocabulary Builder Reference from...

Jean-Baptiste P. Koehl: Why are earthquakes so hard to predict? | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

polymath

n. a person who has expertise or a broad skillset across a range of diverse subjects or areas of knowledge

synonym: renaissance man, genius, expert

(1) **polymath** scholar, (2) modern-day **polymath**

Leonardo da Vinci is considered a **polymath** for his expertise in various fields such as art, science, and engineering.

invention

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

synonym: creation, design, innovation

(1) the **invention** of new techniques, (2) common **invention**

Necessity is the mother of **invention**.

vase

n. a container, typically ornamental, for holding flowers or other decorative objects

synonym: urn, jug, pot

(1) a ceramic **vase**, (2) **vase** pottery

The exquisite **vase** was filled with a bouquet of flowers.

claim

v. to assert that something is true; to demand or request something as one's own; to lay legal or moral right to something; (noun) a demand or assertion of a right or something that one believes to be true

synonym : assert, declare, maintain

(1) **claim** responsibility, (2) false **claim**

He wants to **claim** ownership of the abandoned property.

earthquake

n. a sudden and violent shaking of the ground caused by the movement of rock beneath the earth's surface

synonym : seismic activity, tremor, temblor

(1) an **earthquake** zone, (2) an **earthquake-proof**

The violent **earthquake** caused widespread damage and injuries throughout the region.

aid

n. things sent to help countries in need, notably food or money; support

synonym : helper, resource, assistance

(1) financial **aid**, (2) country-by-country **aid** programs

Pakistan's **aid** budget was still being reviewed.

skeptical

adj. doubting that something is accurate or useful

synonym : doubtful, distrustful, suspicious

(1) a **skeptical** attitude, (2) **skeptical** scientists

His religious and philosophical beliefs were utterly **skeptical**.

device

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

synonym : gadget, instrument, tool

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

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

trigger

v. to make something happen suddenly; to cause something such as a device, machine, etc. to function

synonym : activate, spark, drive

(1) **trigger** a biochemical response, (2) **trigger** inflation

The incident **triggered** a political controversy.

messenger

n. someone or something that carries a message, especially one sent to convey information, news, or an official document

synonym : courier, transmitter, envoy

(1) **messenger** app, (2) a secret **messenger**

An mRNA vaccine is a type of vaccine that uses a copy of a molecule called **messenger** RNA.

doubt

n. a feeling of being uncertain about something, especially about how good or accurate it is

synonym : distrust, suspect, mistrust

(1) dispel **doubts**, (2) no **doubt** about the news

Doubt is the start, not the end, of intelligence.

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.

rely

v. to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.

synonym : depend, count, lean

(1) **rely** on convenience stores, (2) **rely** entirely on him

Babies heavily **rely** on others for food.

identify

v. to recognize someone or something and say or prove who or what they are

synonym : determine, specify, recognize

(1) **identify** handwriting, (2) **identify** gene sequences

I will introduce you to how to **identify** the leading causes of the malfunction.

seismic

adj. relating to or caused by an earthquake or earth vibration

synonym : seismic, tectonic, vibrational

(1) **seismic** activities, (2) a **seismic** center
Earthquakes produce two types of **seismic** waves.

anticipate

v. to expect or predict that something will happen; to tell in advance

synonym: forecast, predict, expect

(1) **anticipate** your kind cooperation, (2) **anticipate** a black future

We **anticipate** heavy snowfall tomorrow.

predict

v. to state beforehand that something will happen in the future, mainly based on knowledge or experience

synonym: forecast, anticipate, foresee

(1) **predict** the future, (2) **predict** when she will arrive

It's notoriously challenging to **predict** birth rates.

crust

n. a hard outer layer that forms on the surface of a liquid as it cools or on a solid as a result of exposure to air or moisture

synonym: layer, coating, shell

(1) **crust** formation, (2) the earth's **crust**

The bread's **crust** was golden brown and crispy.

vast

adj. enormous in size, number, amount, or quantity

synonym: expansive, extended, boundless

(1) **vast** majority, (2) **vast** desert

A **vast** audience viewed the broadcast.

jagged

adj. having a rough and sharply uneven surface or outline

synonym: bumpy, irregular, craggy

(1) **jagged** edges, (2) the **jagged** outline of the crags

There are several **jagged** limestone peaks throughout the mountains.

slab

n. a flat, rectangular piece of material, such as wood or concrete; often used to describe a large, heavy, or solid object or structure

synonym : slate, tile, paving stone

(1) a **slab** of chocolate, (2) marble **slab**

The construction workers poured a large **slab** of concrete for the foundation of the building.

tectonic

adj. relating to the structure of the Earth's crust and the large-scale processes that occur as a result of movements within it

synonym : seismic, geologic, geological

(1) **tectonic** valleys, (2) a **tectonic** earthquake

The **tectonic** plates shifted, causing an earthquake.

molten

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

synonym : melted, liquefied, fused

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

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

mantle

n. a layer of rock between the surface and the core of a planet or moon; a loose sleeveless cloak or shawl; the responsibilities of an important position or job that passes from one person to another

synonym : crust, cloak, cover

(1) **mantle** of power, (2) **mantle** of the presidency

The **mantle** layer on Mars is much thinner than on Earth.

centimeter

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

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

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

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.

crack

v. to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking

synonym : snap, burst, break

(1) **crack** an eggshell, (2) a **crack** in a board

He that would eat the kernel must **crack** the nut.

interact

v. to communicate or react with somebody

synonym : cooperate, combine, collaborate

(1) **interact** directly with customers, (2) **interact** with one another

He should **interact** more with his colleagues.

unstable

adj. lacking solidity, persistence, or firmness and therefore not strong, safe, or likely to continue; lacking control of one's emotions

synonym : shaky, unbalanced, inconsistent

(1) mentally **unstable**, (2) **unstable** weather

The tower proved to be **unstable** in the high wind.

zone

n. a specific area, region, or section that is marked off or defined in some way

synonym : area, region, territory

(1) time **zone**, (2) **zone** defense

He was reluctant to leave his comfort **zone** and try something new.

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.

ultimate

adj. furthest or highest in degree or order

synonym: highest, maximum, foremost

(1) the **ultimate** goal in life, (2) the **ultimate** luxury

Management must take **ultimate** responsibility for the accident.

monitor

v. to observe, check, and track the progress or quality of something over a period of time

synonym: proctor, check, observe

(1) **monitor** an exam, (2) **monitor** the data carefully

They used a special receiver to **monitor** police radio channels.

minuscule

adj. extremely small; tiny

synonym: tiny, insignificant, microscopic

(1) **minuscule** amount, (2) **minuscule** letters

This ore emits **minuscule** quantities of radiation

shift

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

synonym: transition, change, modification

(1) Doppler **shift**, (2) major paradigm **shift**

Could you help me **shift** some furniture?

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.

juxtapose

v. to place two or more things side by side, often to compare or contrast them or to create an effect of surprise or incongruity

synonym: place side by side, compare, contrast

(1) **juxtapose** images, (2) **juxtapose** two ideas

The artist likes to **juxtapose** different styles and colors in her

paintings.

diverse

adj. including numerous categories of individuals or entities;
various

synonym : manifold, various, myriad

(1) **diverse** backgrounds, (2) a person of **diverse** talents
New York is a city with a **diverse** ethnic population.

react

v. to take action in response to something

synonym : respond, reply, oppose

(1) **react** at a high temperature, (2) **react** against his way of thinking

How did he **react** to your idea?

friction

n. the force that opposes motion between two objects in contact, especially by producing heat and wear, and is proportional to the normal force between the objects

synonym : rub, scrape, resistance

(1) **friction** force, (2) surface **friction**

The **friction** between the two countries was causing tension.

temperature

n. the degree of hotness or coldness of a thing or place

synonym : climate, warmth, degree

(1) extreme **temperatures**, (2) the atmospheric **temperature**

Cities around the world set records for highest **temperatures** this summer.

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.

release

v. to set free or allow to escape from confinement

synonym : free, let go, discharge

(1) **release** a prisoner, (2) **release** CO2 into the air
The animal rights group worked to **release** the dolphins back into the wild.

lubricate

v. to apply a substance, such as oil or grease, to reduce friction or wear on a surface

synonym: grease, oil, make slippery

(1) **lubricate** the economy, (2) **lubricate** the hinges with oil
The mechanic **lubricated** the gears to prevent them from grinding.

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.

superheat

v. to heat a substance to a temperature higher than its boiling point

synonym: overheat, heat up, scorch

(1) **superheat** the cheese, (2) **superheat** the solution

The metal must be **superheated** before being shaped into the final product.

mineral

n. a solid inorganic substance occurring in nature having a definite chemical composition

(1) vitamin and **minerals**, (2) **mineral** rights

The robust economy of the country is based on its **mineral** resources.

prone

adj. inclined or likely to do something or to show a particular characteristic, especially something bad; lying face downward

synonym: inclined, susceptible, liable

(1) accident- **prone**, (2) **prone** to diarrhea

He was **prone** to making rash decisions.

buildup

n. the accumulation or increase of something over time
synonym: accumulation, increase, growth

(1) lactic acid **buildup**, (2) huge military **buildup**

The **buildup** of stress over time can lead to health problems.

gravitational

adj. relating to or caused by gravity (= the force that attracts objects towards one another)

synonym: weighty, heavy, earthbound

(1) **gravitational** energy, (2) **gravitational** waves

The **gravitational** force of the black hole was so strong that nothing, not even light, could escape.

variable

adj. likely to change or vary often; (noun) a symbol, like x or y, that is used in mathematical or logical expressions to represent a value that may be changed

synonym: erratic, inconsistent, irregular

(1) a **variable** species, (2) a dependent **variable**

Rainfall in the tropics is highly **variable**.

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.

prediction

n. the act of predicting the future by reasoning; a statement made about the future

synonym: forecast, anticipation, foretelling

(1) make my **predictions**, (2) gloomy **predictions**

These results muddied the **prediction**.

toolkit

n. a set of tools, materials, or resources that are designed to be used together for a specific purpose or task; a collection of information or techniques that can be used to address a problem or achieve a goal

synonym : tool set, equipment, utility kit

(1) handy **toolkit**, (2) digital **toolkit**

The DIY **toolkit** includes a variety of power and hand tools for home repair.

largely

adv. virtually entirely; to a large degree

synonym : mainly, chiefly, broadly

(1) **largely** accepted, (2) **largely** mitigate the issue

Nevada is **largely** a desert state.

constant

adj. happening repeatedly or all the time

synonym : ceaseless, stable, unchanging

(1) a **constant** wind, (2) a **constant** temperature

Constant dropping wears away the stone.

cycle

n. an interval during which a recurring sequence of events occurs; a bicycle or motorcycle

synonym : revolution, rotation, bike

(1) the **cycle** of the seasons, (2) go to the workplace by **cycle**

The food chain causes a material **cycle**.

reliable

adj. worthy of being relied on; trustworthy

synonym : dependable, trustworthy, dedicated

(1) **reliable** access, (2) guarantee **reliable** delivery

Trains are **reliable**, inexpensive, and ideal for long-distance travel.

clue

n. an object, a piece of evidence, or some information that helps someone to find the answer to a problem, question, or mystery

synonym : hint, indication, inkling

(1) a **clue** about the crime, (2) a **clue** to the diagnosis

The police couldn't find a **clue** to her whereabouts.

forecast

n. a prediction or statement about how something, such as the weather, will develop or what will happen in the future; (verb) to predict the future in advance

synonym : prediction, outlook, (verb) guess

(1) a weather **forecast**, (2) **forecast** an epidemic

Their team specializes in demand **forecasts** for our products.

relate

v. to establish a connection or association between two or more things; to narrate or tell about an event, experience, or relationship; to empathize or feel sympathy with someone or something

synonym : connect, link, associate

(1) **relate** a story, (2) **relate** a message

He tried to **relate** his experience to the group, but they couldn't understand.

millennium

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

(1) past **millennium**, (2) **millennium** bottle of wine

Our world is in the third **millennium**.

overdue

adj. past the expected or scheduled time; not completed or paid on time; delayed, tardy, or postponed

synonym : late, delinquent, outstanding

(1) **overdue** bill, (2) **overdue** task

Her library books were **overdue**, so she had to pay a fine to check out more.

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.

involve

v. to include or affect someone or something as a necessary part of something else

synonym : implicate, include, engage

(1) **involve** a lot of paperwork, (2) **involve** a high degree of risk

The investigation **involves** several government agencies and is expected to take several months.

loose

adj. not securely fixed or fastened in place or able to be detached or separated from something

synonym : relaxed, unconsolidated, open

(1) a **loose** tongue, (2) remove **loose** hair

The inspector discovered **loose** bolts under the fuel rods.

timeframe

n. a period of time within which something is planned to be done or must be accomplished; a specified or estimated duration for completing a project or task

synonym : timespan, duration, period

(1) short **timeframe**, (2) realistic **timeframe**

We need to set a **timeframe** for completing this project.

imminent

adj. coming or likely to happen very soon

synonym : looming, coming, impending

(1) **imminent** danger, (2) **imminent** arrest

This country was long faced with **imminent** peril.

investigate

v. to conduct a systematic or formal inquiry to identify and evaluate the facts of a crime, problem, statement, etc. to establish the truth

synonym : examine, analyze, look into

(1) **investigate** the matter, (2) **investigate** a data leak

The committee **investigated** several apparent inconsistencies.

vibration

n. a continuous quick and slight shaking movement

synonym : oscillation, fluctuation, reverberation

(1) protection against **vibration**, (2) sympathetic **vibration**

Vibration displaced part of the mechanism.

elicit

v. to obtain information or a reaction from someone, usually with difficulty

synonym: bring out, obtain, evoke

(1) **elicit** a confession, (2) **elicit** a solution

Have you **elicited** a response from them yet?

quake

v. to shake or vibrate violently and for a short time

synonym: shake, trembler, tremor

(1) **quake** in his boots, (2) **quake** with cold

The earth began to **quake**, and he knew he had to leave the building immediately.

geologist

n. a scientist or specialist who studies geology

(1) planetary **geologist**, (2) marine **geologist**

These issues baffled **geologists** for many years.

seismometer

n. an instrument used to measure and record seismic activity, including earthquakes, volcanic eruptions, and other ground vibrations

synonym: earthquake detector, tremor detector

(1) underwater **seismometer**, (2) built-in **seismometer**

By analyzing the data from the **seismometer**, the scientists determined the earthquake's epicenter.

smartphone

n. a mobile phone that functions as a computer and connects to the Internet

(1) **smartphone** app developer, (2) **smartphone** addict

Internet traffic volumes have increased significantly with the advent of **smartphones**.

primary

adj. first or highest in rank, order, or importance; most fundamental or essential; pertaining to the initial or introductory stage of something, such as a school year or election cycle

synonym: chief, main, fundamental

(1) **primary** school, (2) **primary** education

The **primary** cause of the accident was due to the icy road

conditions.

globe

n. the earth or world, mainly used to emphasize its vastness

synonym: Earth, world, sphere

(1) terrestrial **globe**, (2) around the **globe**

His final goal is to sail around the **globe**.

crowdsourcing

n. the practice of obtaining needed services, ideas, or content by enlisting the services of a large number of people, either paid or unpaid, typically via the internet

(1) **crowdsourcing** apps, (2) **crowdsourcing** in climate policy

The company used this **crowdsourcing** platform to gather ideas for its next product.

warn

v. to make someone aware of potential danger or difficulty, particularly one that may occur in the future

synonym: alert, caution, admonish

(1) **warn** a reckless driver, (2) **warned** me of the plan

I attempted to **warn** him, but he ignored me.

alert

v. to warn or arouse to a sense of danger; (adjective) paying close attention or being in a state of readiness for action

synonym: warn, inform, (adjective) vigilant

(1) **alert** consumers to the dangers, (2) **alert** system

The company's cybersecurity team **alerted** the CEO to potential threats.

unfortunately

adv. by bad luck; unluckily

synonym: regrettably, unluckily, alas

(1) **unfortunately** caught in a shower, (2) even more **unfortunately**

The treatments were done but, **unfortunately**, were unsuccessful.

advance

v. to go or move forward; to develop in a positive way
synonym: progress, boost, come along

(1) **advance** the technology, (2) **advance** a cooperative relationship

Scientific knowledge will **advance** significantly with the power of AI.

enact

v. to make a law; to put something into practice
synonym: legislate, pass, decree

(1) **enact** new legislation, (2) **enact** the smoking ban

The government **enacted** this law in 1925.

protocol

n. a set of rules or procedures for transmitting data or conducting a process or activity, especially in computer networks or scientific experiments; the initial or original version of an agreement

synonym: procedure, system, method

(1) draft a **protocol**, (2) **protocol** breach

The company has a strict **protocol** for handling sensitive information to ensure security.

software

n. a set of computer programs and associated documentation and data for doing particular computational jobs

synonym: program, system, operating system

(1) **software** architect, (2) copyrighted **software**

The company specializes in both hardware and **software**.

rigorous

adj. allowing or demanding no deviation from a standard; extremely careful, thorough, or accurate

synonym: severe, exact, strict

(1) **rigorous** standards, (2) have **rigorous** criticism

The way he manages his employees is extremely **rigorous**.

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.

geology

n. a science that deals with the history of the earth as recorded in rocks

synonym: earth science

(1) bureau of **geology**, (2) local **geology**

He was a visiting **geology** professor at the University of Tokyo.

indicate

v. to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly

synonym: hint, suggest, show

(1) **indicate** a preference, (2) **indicate** an error

The data **indicates** that the company's profits have steadily increased over the past quarter.

invisible

adj. impossible or nearly impossible to see

synonym: hidden, imperceptible, unseen

(1) an **invisible** asset, (2) **invisible** stars

The phenomenon is **invisible** at optical wavelengths.

strike

v. to wallop somebody or something with the hand, fist, or weapon; to have an emotional or cognitive impact upon

synonym: hit, impact, influence

(1) **strike** up a conversation, (2) **strike** a blow

We **strike** to achieve more wages and safer working conditions.

surprisingly

adv. in a way that causes amazement or wonder

synonym: exceptionally, notably, unusually

(1) **surprisingly** advanced culture, (2) have **surprisingly** little effect

The exam was **surprisingly** tricky for everyone.

concentration

n. the ability to focus all your time and energy on one thing without thinking about anything else.

synonym : attention, engagement, assiduity

(1) **concentration** of armaments, (2) his research area of **concentration**

This exam requires excellent **concentration** to pass.

radioactive

adj. emitting powerful and dangerous energy when the nuclei (= central parts) of atoms are broken up

synonym : dangerous, contaminated, emanating

(1) **radioactive** decay, (2) **radioactive** isotope

The **radioactive** material was carefully stored in a lead-lined container.

isotope

n. a variation of an element that has the same number of protons in its nucleus but a different number of neutrons, resulting in a different atomic mass and often different physical or chemical properties

synonym : variant, nuclide, radioisotope

(1) radioactive **isotope**, (2) stable **isotope**

The **isotope** carbon-14 is commonly used in radiocarbon dating of fossils.

radon

n. a chemical element with the atomic number 86 and symbol Rn that is a radioactive gas and comes from the decay of uranium in rocks and soil, and that is colorless, odorless, and tasteless and can cause cancer if inhaled in large amounts

synonym : Rn

(1) **radon** gas, (2) **radon** poisoning

Radon exposure is the leading cause of lung cancer among non-smokers.

thoron

n. the radioactive isotope of radon known as Radon-220, unlike Radon-222, which is the more commonly known isotope of radon and is part of the decay chain of uranium and thorium, often can be found in soil, rocks, and some building materials

synonym : Radon-220

(1) **thoron** gas, (2) **thoron** decay

The **thoron-daughter** products, such as polonium-216, can have health implications if inhaled.

fracture

n. the breaking or cracking of a rigid material or object such as bone

synonym : break, crack, rupture

(1) **fracture** test, (2) risk of bone **fractures**

X-ray inspection revealed many **fractures**.

detect

v. to find or recognize something, especially something difficult to see, hear, etc.

synonym : catch, observe, notice

(1) **detect** a bad event, (2) **detect** smuggling across borders

The security camera has **detected** four intruders.

large-scale

adj. involving many people or things and involving a lot of change or activity

synonym : big, massive, grand

(1) **large-scale** project, (2) **large-scale** agriculture

The company is planning to make a **large-scale** expansion of its factory.

Session 2: Spelling

1. no do__t about the news
n. a feeling of being uncertain about something, especially about how good or accurate it is
2. cr__k an eggshell
v. to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking
3. the ul____te luxury
adj. furthest or highest in degree or order
4. v__t majority
adj. enormous in size, number, amount, or quantity
5. in____ct directly with customers
v. to communicate or react with somebody
6. tr____r inflation
v. to make something happen suddenly; to cause something such as a device, machine, etc. to function
7. ju____se images
v. to place two or more things side by side, often to compare or contrast them or to create an effect of surprise or incongruity
8. me____er app
n. someone or something that carries a message, especially one sent to convey information, news, or an official document
9. a te____ic earthquake
adj. relating to the structure of the Earth's crust and the large-scale processes that occur as a result of movements within it
10. sk____al scientists
adj. doubting that something is accurate or useful

ANSWERS: 1. doubt, 2. crack, 3. ultimate, 4. vast, 5. interact, 6. trigger, 7. juxtapose, 8. messenger, 9. tectonic, 10. skeptical

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|---|-------------|--|
| 11. qu__e with cold | <i>v.</i> | to shake or vibrate violently and for a short time |
| 12. ant_____te a black future | <i>v.</i> | to expect or predict that something will happen; to tell in advance |
| 13. the cy__e of the seasons | <i>n.</i> | an interval during which a recurring sequence of events occurs; a bicycle or motorcycle |
| 14. ad_____e a cooperative relationship | <i>v.</i> | to go or move forward; to develop in a positive way |
| 15. pr_____ol breach | <i>n.</i> | a set of rules or procedures for transmitting data or conducting a process or activity, especially in computer networks or scientific experiments; the initial or original version of an agreement |
| 16. make my pre_____ons | <i>n.</i> | the act of predicting the future by reasoning; a statement made about the future |
| 17. a lo__e tongue | <i>adj.</i> | not securely fixed or fastened in place or able to be detached or separated from something |
| 18. a co_____nt temperature | <i>adj.</i> | happening repeatedly or all the time |
| 19. fr_____re test | <i>n.</i> | the breaking or cracking of a rigid material or object such as bone |
| 20. m__t the ice | <i>v.</i> | to turn from something solid into something soft or liquid as a result of heating |
| 21. lactic acid bu_____p | <i>n.</i> | the accumulation or increase of something over time |

ANSWERS: 11. quake, 12. anticipate, 13. cycle, 14. advance, 15. protocol, 16. prediction, 17. loose, 18. constant, 19. fracture, 20. melt, 21. buildup

22. ma____e amounts *adj.* enormous amount; very heavy and solid
23. su_____at the cheese *v.* to heat a substance to a temperature higher than its boiling point
24. el___t a solution *v.* to obtain information or a reaction from someone, usually with difficulty
25. modern-day po_____th *n.* a person who has expertise or a broad skillset across a range of diverse subjects or areas of knowledge
26. financial a_d *n.* things sent to help countries in need, notably food or money; support
27. qu__e in his boots *v.* to shake or vibrate violently and for a short time
28. de___t a bad event *v.* to find or recognize something, especially something difficult to see, hear, etc.
29. re__t against his way of thinking *v.* to take action in response to something
30. protection against vi_____on *n.* a continuous quick and slight shaking movement
31. mo_____r the data carefully *v.* to observe, check, and track the progress or quality of something over a period of time
32. ra__n poisoning *n.* a chemical element with the atomic number 86 and symbol Rn that is a radioactive gas and comes from the decay of uranium in rocks and soil, and that is colorless, odorless, and tasteless and can cause cancer if inhaled in large amounts

ANSWERS: 22. massive, 23. superheat, 24. elicit, 25. polymath, 26. aid, 27. quake, 28. detect, 29. react, 30. vibration, 31. monitor, 32. radon

33. gloomy pre_____ons *n.* the act of predicting the future by reasoning; a statement made about the future
34. mo_____r an exam *v.* to observe, check, and track the progress or quality of something over a period of time
35. around the gl___e *n.* the earth or world, mainly used to emphasize its vastness
36. sma_____ne addict *n.* a mobile phone that functions as a computer and connects to the Internet
37. v__y directly with the price *v.* to become different in terms of size, shape, etc.
38. st___e up a conversation *v.* to wallop somebody or something with the hand, fist, or weapon; to have an emotional or cognitive impact upon
39. cr__t formation *n.* a hard outer layer that forms on the surface of a liquid as it cools or on a solid as a result of exposure to air or moisture
40. r__y entirely on him *v.* to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.
41. la_____y accepted *adv.* virtually entirely; to a large degree
42. w__ned me of the plan *v.* to make someone aware of potential danger or difficulty, particularly one that may occur in the future
43. pr_____y education *adj.* first or highest in rank, order, or importance; most fundamental or essential; pertaining to the initial or introductory stage of something, such as a school year or election cycle

ANSWERS: 33. prediction, 34. monitor, 35. globe, 36. smartphone, 37. vary, 38. strike, 39. crust, 40. rely, 41. largely, 42. warn, 43. primary

44. sur_____gly advanced culture *adv.* in a way that causes amazement or wonder
45. w__n a reckless driver *v.* to make someone aware of potential danger or difficulty, particularly one that may occur in the future
46. id_____fy gene sequences *v.* to recognize someone or something and say or prove who or what they are
47. the atmospheric tem_____re *n.* the degree of hotness or coldness of a thing or place
48. cl__m responsibility *v.* to assert that something is true; to demand or request something as one's own; to lay legal or moral right to something; (noun) a demand or assertion of a right or something that one believes to be true
49. ri_____us standards *adj.* allowing or demanding no deviation from a standard; extremely careful, thorough, or accurate
50. un_____le weather *adj.* lacking solidity, persistence, or firmness and therefore not strong, safe, or likely to continue; lacking control of one's emotions
51. ma___e of the presidency *n.* a layer of rock between the surface and the core of a planet or moon; a loose sleeveless cloak or shawl; the responsibilities of an important position or job that passes from one person to another
52. an_____e a chemical compound *v.* to think about in-depth and evaluate to discover essential features or meaning

ANSWERS: 44. surprisingly, 45. warn, 46. identify, 47. temperature, 48. claim, 49. rigorous, 50. unstable, 51. mantle, 52. analyze

53. re____le access *adj.* worthy of being relied on; trustworthy
54. po____th scholar *n.* a person who has expertise or a broad skillset across a range of diverse subjects or areas of knowledge
55. 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
56. past mil____um *n.* a span of 1000 years, or the 1000th anniversary (plural: millennia)
57. bureau of ge____y *n.* a science that deals with the history of the earth as recorded in rocks
58. short ti____me *n.* a period of time within which something is planned to be done or must be accomplished; a specified or estimated duration for completing a project or task
59. a person of di____e talents *adj.* including numerous categories of individuals or entities; various
60. so____re architect *n.* a set of computer programs and associated documentation and data for doing particular computational jobs
61. terrestrial gl__e *n.* the earth or world, mainly used to emphasize its vastness
62. th____n gas *n.* the radioactive isotope of radon known as Radon-220, unlike Radon-222, which is the more commonly known isotope of radon and is part of the decay chain of uranium and thorium, often can be found in soil, rocks, and some building materials

ANSWERS: 53. reliable, 54. polymath, 55. movement, 56. millennium, 57. geology, 58. timeframe, 59. diverse, 60. software, 61. globe, 62. thoron

63. country-by-country a_d programs *n.* things sent to help countries in need, notably food or money; support
64. the ul____te goal in life *adj.* furthest or highest in degree or order
65. marine ge_____st *n.* a scientist or specialist who studies geology
66. a mo____n image *adj.* in a liquid state as a result of being heated
67. se_____c activities *adj.* relating to or caused by an earthquake or earth vibration
68. a c__e to the diagnosis *n.* an object, a piece of evidence, or some information that helps someone to find the answer to a problem, question, or mystery
69. bl__d milk and cream *v.* to mix or combine two or more substances
70. gra_____nal waves *adj.* relating to or caused by gravity (= the force that attracts objects towards one another)
71. m__t down gold *v.* to turn from something solid into something soft or liquid as a result of heating
72. r__y on convenience stores *v.* to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.
73. Doppler sh__t *n.* a slight transition in position, direction, or trend
74. pr_____t the future *v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience

ANSWERS: 63. aid, 64. ultimate, 65. geologist, 66. molten, 67. seismic, 68. clue, 69. blend, 70. gravitational, 71. melt, 72. rely, 73. shift, 74. predict

75. common in _____ on *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
76. ra__n gas *n.* a chemical element with the atomic number 86 and symbol Rn that is a radioactive gas and comes from the decay of uranium in rocks and soil, and that is colorless, odorless, and tasteless and can cause cancer if inhaled in large amounts
77. en__t new legislation *v.* to make a law; to put something into practice
78. draft a pr_____ol *n.* a set of rules or procedures for transmitting data or conducting a process or activity, especially in computer networks or scientific experiments; the initial or original version of an agreement
79. rad_____ve isotope *adj.* emitting powerful and dangerous energy when the nuclei (= central parts) of atoms are broken up
80. have sur_____gly little effect *adv.* in a way that causes amazement or wonder
81. in_____e a lot of paperwork *v.* to include or affect someone or something as a necessary part of something else
82. time z__e *n.* a specific area, region, or section that is marked off or defined in some way
83. an ear_____ke-proof *n.* a sudden and violent shaking of the ground caused by the movement of rock beneath the earth's surface

ANSWERS: 75. invention, 76. radon, 77. enact, 78. protocol, 79. radioactive, 80. surprisingly, 81. involve, 82. zone, 83. earthquake

84. tracking de___e *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
85. fr_____on force *n.* the force that opposes motion between two objects in contact, especially by producing heat and wear, and is proportional to the normal force between the objects
86. unf_____ely caught in a shower *adv.* by bad luck; unluckily
87. id_____fy handwriting *v.* to recognize someone or something and say or prove who or what they are
88. lar_____le agriculture *adj.* involving many people or things and involving a lot of change or activity
89. di_____e backgrounds *adj.* including numerous categories of individuals or entities; various
90. v__y according to the age *v.* to become different in terms of size, shape, etc.
91. mi_____le letters *adj.* extremely small; tiny
92. ant_____te your kind cooperation *v.* to expect or predict that something will happen; to tell in advance
93. risk of bone fr_____res *n.* the breaking or cracking of a rigid material or object such as bone
94. ja____d edges *adj.* having a rough and sharply uneven surface or outline
95. ma____e of power *n.* a layer of rock between the surface and the core of a planet or moon; a loose sleeveless cloak or shawl; the responsibilities of an important position or job that passes from one person to another

ANSWERS: 84. device, 85. friction, 86. unfortunately, 87. identify, 88. large-scale, 89. diverse, 90. vary, 91. minuscule, 92. anticipate, 93. fracture, 94. jagged, 95. mantle

96. inv_____te the matter *v.* to conduct a systematic or formal inquiry to identify and evaluate the facts of a crime, problem, statement, etc. to establish the truth
97. surface fr_____on *n.* the force that opposes motion between two objects in contact, especially by producing heat and wear, and is proportional to the normal force between the objects
98. vitamin and mi_____ls *n.* a solid inorganic substance occurring in nature having a definite chemical composition
99. la_____y mitigate the issue *adv.* virtually entirely; to a large degree
100. tr_____r a biochemical response *v.* to make something happen suddenly; to cause something such as a device, machine, etc. to function
101. a se_____c center *adj.* relating to or caused by an earthquake or earth vibration
102. in_____fy diplomatic efforts *v.* to increase or make something increase in extent or strength
103. 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
104. bl__d all the elements *v.* to mix or combine two or more substances
105. mi_____le amount *adj.* extremely small; tiny

ANSWERS: 96. investigate, 97. friction, 98. mineral, 99. largely, 100. trigger, 101. seismic, 102. intensify, 103. movement, 104. blend, 105. minuscule

106. an_____e your real motives *v.* to think about in-depth and evaluate to discover essential features or meaning
107. an ear_____ke zone *n.* a sudden and violent shaking of the ground caused by the movement of rock beneath the earth's surface
108. in_____e a high degree of risk *v.* to include or affect someone or something as a necessary part of something else
109. inv_____te a data leak *v.* to conduct a systematic or formal inquiry to identify and evaluate the facts of a crime, problem, statement, etc. to establish the truth
110. mil_____um bottle of wine *n.* a span of 1000 years, or the 1000th anniversary (plural: millennia)
111. ov_____e task *adj.* past the expected or scheduled time; not completed or paid on time; delayed, tardy, or postponed
112. mi_____l rights *n.* a solid inorganic substance occurring in nature having a definite chemical composition
113. handy to_____t *n.* a set of tools, materials, or resources that are designed to be used together for a specific purpose or task; a collection of information or techniques that can be used to address a problem or achieve a goal
114. thirty cen_____ers tall *n.* a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter

ANSWERS: 106. analyze, 107. earthquake, 108. involve, 109. investigate, 110. millennium, 111. overdue, 112. mineral, 113. toolkit, 114. centimeter

115. have ri____us criticism *adj.* allowing or demanding no deviation from a standard; extremely careful, thorough, or accurate
116. even more unf____ely *adv.* by bad luck; unluckily
117. an in____le asset *adj.* impossible or nearly impossible to see
118. cro____ing apps *n.* the practice of obtaining needed services, ideas, or content by enlisting the services of a large number of people, either paid or unpaid, typically via the internet
119. a s__b of chocolate *n.* a flat, rectangular piece of material, such as wood or concrete; often used to describe a large, heavy, or solid object or structure
120. accident-pr__e *adj.* inclined or likely to do something or to show a particular characteristic, especially something bad; lying face downward
121. a dependent va____le *adj.* likely to change or vary often; (noun) a symbol, like x or y, that is used in mathematical or logical expressions to represent a value that may be changed
122. in____ct with one another *v.* to communicate or react with somebody
123. a co____nt wind *adj.* happening repeatedly or all the time
124. false cl__m *v.* to assert that something is true; to demand or request something as one's own; to lay legal or moral right to something; (noun) a demand or assertion of a right or something that one believes to be true

ANSWERS: 115. rigorous, 116. unfortunately, 117. invisible, 118. crowdsourcing, 119. slab, 120. prone, 121. variable, 122. interact, 123. constant, 124. claim

125. a weather fo____st
n. a prediction or statement about how something, such as the weather, will develop or what will happen in the future; (verb) to predict the future in advance
126. ov____e bill
adj. past the expected or scheduled time; not completed or paid on time; delayed, tardy, or postponed
127. v__e pottery
n. a container, typically ornamental, for holding flowers or other decorative objects
128. huge military bu____p
n. the accumulation or increase of something over time
129. extreme tem____res
n. the degree of hotness or coldness of a thing or place
130. underwater sei____er
n. an instrument used to measure and record seismic activity, including earthquakes, volcanic eruptions, and other ground vibrations
131. sma____ne app developer
n. a mobile phone that functions as a computer and connects to the Internet
132. built-in sei____er
n. an instrument used to measure and record seismic activity, including earthquakes, volcanic eruptions, and other ground vibrations
133. sympathetic vi____on
n. a continuous quick and slight shaking movement
134. dispel do__ts
n. a feeling of being uncertain about something, especially about how good or accurate it is

ANSWERS: 125. forecast, 126. overdue, 127. vase, 128. buildup, 129. temperature, 130. seismometer, 131. smartphone, 132. seismometer, 133. vibration, 134. doubt

135. al__t consumers to the dangers *v.* to warn or arouse to a sense of danger; (adjective) paying close attention or being in a state of readiness for action
136. electronic de___e *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
137. in_____te a preference *v.* to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly
138. cen_____er measurement *n.* a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
139. re_____e CO2 into the air *v.* to set free or allow to escape from confinement
140. the in_____on of new techniques *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
141. v__t desert *adj.* enormous in size, number, amount, or quantity
142. th___n decay *n.* the radioactive isotope of radon known as Radon-220, unlike Radon-222, which is the more commonly known isotope of radon and is part of the decay chain of uranium and thorium, often can be found in soil, rocks, and some building materials
143. su_____at the solution *v.* to heat a substance to a temperature higher than its boiling point

ANSWERS: 135. alert, 136. device, 137. indicate, 138. centimeter, 139. release, 140. invention, 141. vast, 142. thoron, 143. superheat

144. cro_____ing in climate policy *n.* the practice of obtaining needed services, ideas, or content by enlisting the services of a large number of people, either paid or unpaid, typically via the internet
145. re___e a message *v.* to establish a connection or association between two or more things; to narrate or tell about an event, experience, or relationship; to empathize or feel sympathy with someone or something
146. lu_____te the hinges with oil *v.* to apply a substance, such as oil or grease, to reduce friction or wear on a surface
147. lar_____le project *adj.* involving many people or things and involving a lot of change or activity
148. te_____ic valleys *adj.* relating to the structure of the Earth's crust and the large-scale processes that occur as a result of movements within it
149. pr_____y school *adj.* first or highest in rank, order, or importance; most fundamental or essential; pertaining to the initial or introductory stage of something, such as a school year or election cycle
150. fo_____st an epidemic *n.* a prediction or statement about how something, such as the weather, will develop or what will happen in the future; (verb) to predict the future in advance
151. re__t at a high temperature *v.* to take action in response to something

ANSWERS: 144. crowdsourcing, 145. relate, 146. lubricate, 147. large-scale, 148. tectonic, 149. primary, 150. forecast, 151. react

163. re___e a story *v.* to establish a connection or association between two or more things; to narrate or tell about an event, experience, or relationship; to empathize or feel sympathy with someone or something
164. in_____te an error *v.* to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly
165. plenty of fl__ds *n.* a substance that can flow and is not solid
166. go to the workplace by cy__e *n.* an interval during which a recurring sequence of events occurs; a bicycle or motorcycle
167. major paradigm sh__t *n.* a slight transition in position, direction, or trend
168. ad_____e the technology *v.* to go or move forward; to develop in a positive way
169. a sk_____al attitude *adj.* doubting that something is accurate or useful
170. a secret me_____er *n.* someone or something that carries a message, especially one sent to convey information, news, or an official document
171. rad_____ve decay *adj.* emitting powerful and dangerous energy when the nuclei (= central parts) of atoms are broken up
172. de___t smuggling across borders *v.* to find or recognize something, especially something difficult to see, hear, etc.

ANSWERS: 163. relate, 164. indicate, 165. fluid, 166. cycle, 167. shift, 168. advance, 169. skeptical, 170. messenger, 171. radioactive, 172. detect

173. realistic ti_____me *n.* a period of time within which something is planned to be done or must be accomplished; a specified or estimated duration for completing a project or task
174. re_____e a prisoner *v.* to set free or allow to escape from confinement
175. planetary ge_____st *n.* a scientist or specialist who studies geology
176. mentally un_____le *adj.* lacking solidity, persistence, or firmness and therefore not strong, safe, or likely to continue; lacking control of one's emotions
177. a cr__k in a board *v.* to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking
178. st___e a blow *v.* to wallop somebody or something with the hand, fist, or weapon; to have an emotional or cognitive impact upon
179. ju_____se two ideas *v.* to place two or more things side by side, often to compare or contrast them or to create an effect of surprise or incongruity
180. digital to_____t *n.* a set of tools, materials, or resources that are designed to be used together for a specific purpose or task; a collection of information or techniques that can be used to address a problem or achieve a goal
181. mo___n lava *adj.* in a liquid state as a result of being heated

ANSWERS: 173. timeframe, 174. release, 175. geologist, 176. unstable, 177. crack, 178. strike, 179. juxtapose, 180. toolkit, 181. molten

182. pr__e to diarrhea *adj.* inclined or likely to do something or to show a particular characteristic, especially something bad; lying face downward
183. a ceramic v__e *n.* a container, typically ornamental, for holding flowers or other decorative objects
184. z__e defense *n.* a specific area, region, or section that is marked off or defined in some way
185. gra_____nal energy *adj.* relating to or caused by gravity (= the force that attracts objects towards one another)
186. the ja___d outline of the crags *adj.* having a rough and sharply uneven surface or outline
187. a c__e about the crime *n.* an object, a piece of evidence, or some information that helps someone to find the answer to a problem, question, or mystery
188. copyrighted so_____re *n.* a set of computer programs and associated documentation and data for doing particular computational jobs
189. con_____ion of armaments *n.* the ability to focus all your time and energy on one thing without thinking about anything else.
190. remove lo__e hair *adj.* not securely fixed or fastened in place or able to be detached or separated from something
191. radioactive is_____e *n.* a variation of an element that has the same number of protons in its nucleus but a different number of neutrons, resulting in a different atomic mass and often different physical or chemical properties

ANSWERS: 182. prone, 183. vase, 184. zone, 185. gravitational, 186. jagged, 187. clue, 188. software, 189. concentration, 190. loose, 191. isotope

192. stable is____e
n. a variation of an element that has the same number of protons in its nucleus but a different number of neutrons, resulting in a different atomic mass and often different physical or chemical properties
193. im____nt arrest
adj. coming or likely to happen very soon
194. his research area of
con_____ion
n. the ability to focus all your time and energy on one thing without thinking about anything else.
195. im____nt danger
adj. coming or likely to happen very soon
196. fl__d assets
n. a substance that can flow and is not solid
197. a debt of gr_____de
n. the quality of being thankful; readiness to show appreciation for and to return kindness
198. guarantee re____le delivery
adj. worthy of being relied on; trustworthy
199. pr____t when she will arrive
v. to state beforehand that something will happen in the future, mainly based on knowledge or experience
200. ma____e stars
adj. enormous amount; very heavy and solid

ANSWERS: 192. isotope, 193. imminent, 194. concentration, 195. imminent, 196. fluid, 197. gratitude, 198. reliable, 199. predict, 200. massive

Session 3: Fill in the Blanks

1. This country was long faced with _____ peril.
adj. coming or likely to happen very soon
2. The robust economy of the country is based on its _____ resources.
n. a solid inorganic substance occurring in nature having a definite chemical composition
3. The government _____ this law in 1925.
v. to make a law; to put something into practice
4. His final goal is to sail around the _____.
n. the earth or world, mainly used to emphasize its vastness
5. These results muddied the _____.
n. the act of predicting the future by reasoning; a statement made about the future
6. Internet traffic volumes have increased significantly with the advent of _____.
n. a mobile phone that functions as a computer and connects to the Internet
7. The company specializes in both hardware and _____.
n. a set of computer programs and associated documentation and data for doing particular computational jobs
8. They used a special receiver to _____ police radio channels.
v. to observe, check, and track the progress or quality of something over a period of time

ANSWERS: 1. imminent, 2. mineral, 3. enacted, 4. globe, 5. prediction, 6. smartphones, 7. software, 8. monitor

9. Necessity is the mother of _____.
- n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
10. The _____ layer on Mars is much thinner than on Earth.
- n.* a layer of rock between the surface and the core of a planet or moon; a loose sleeveless cloak or shawl; the responsibilities of an important position or job that passes from one person to another
11. The committee _____ several apparent inconsistencies.
- v.* to conduct a systematic or formal inquiry to identify and evaluate the facts of a crime, problem, statement, etc. to establish the truth
12. Their team specializes in demand _____ for our products.
- n.* a prediction or statement about how something, such as the weather, will develop or what will happen in the future; (verb) to predict the future in advance
13. The company used this _____ platform to gather ideas for its next product.
- n.* the practice of obtaining needed services, ideas, or content by enlisting the services of a large number of people, either paid or unpaid, typically via the internet
14. There are several _____ limestone peaks throughout the mountains.
- adj.* having a rough and sharply uneven surface or outline
15. The phenomenon is _____ at optical wavelengths.
- adj.* impossible or nearly impossible to see
16. The exquisite _____ was filled with a bouquet of flowers.
- n.* a container, typically ornamental, for holding flowers or other decorative objects

ANSWERS: 9. invention, 10. mantle, 11. investigated, 12. forecasts, 13. crowdsourcing, 14. jagged, 15. invisible, 16. vase

17. The teacher attempted to _____ the root cause of our mistake.
v. to think about in-depth and evaluate to discover essential features or meaning
18. We need to set a _____ for completing this project.
n. a period of time within which something is planned to be done or must be accomplished; a specified or estimated duration for completing a project or task
19. The data _____ that the company's profits have steadily increased over the past quarter.
v. to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly
20. The recent economic downturn has resulted in _____ layoffs.
adj. enormous amount; very heavy and solid
21. By analyzing the data from the _____ the scientists determined the earthquake's epicenter.
n. an instrument used to measure and record seismic activity, including earthquakes, volcanic eruptions, and other ground vibrations
22. Scientific knowledge will _____ significantly with the power of AI.
v. to go or move forward; to develop in a positive way
23. The company is planning to make a _____ expansion of its factory.
adj. involving many people or things and involving a lot of change or activity
24. The _____ metal was poured into the mold.
adj. in a liquid state as a result of being heated

ANSWERS: 17. analyze, 18. timeframe, 19. indicates, 20. massive, 21. seismometer, 22. advance, 23. large-scale, 24. molten

25. We _____ to achieve more wages and safer working conditions.
- v. to wallop somebody or something with the hand, fist, or weapon; to have an emotional or cognitive impact upon
26. The investigation _____ several government agencies and is expected to take several months.
- v. to include or affect someone or something as a necessary part of something else
27. The mechanic _____ the gears to prevent them from grinding.
- v. to apply a substance, such as oil or grease, to reduce friction or wear on a surface
28. He that would eat the kernel must _____ the nut.
- v. to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking
29. Pakistan's ___ budget was still being reviewed.
- n. things sent to help countries in need, notably food or money; support
30. The inspector discovered _____ bolts under the fuel rods.
- adj. not securely fixed or fastened in place or able to be detached or separated from something
31. The bread's _____ was golden brown and crispy.
- n. a hard outer layer that forms on the surface of a liquid as it cools or on a solid as a result of exposure to air or moisture
32. _____ exposure is the leading cause of lung cancer among non-smokers.
- n. a chemical element with the atomic number 86 and symbol Rn that is a radioactive gas and comes from the decay of uranium in rocks and soil, and that is colorless, odorless, and tasteless and can cause cancer if inhaled in large amounts

ANSWERS: 25. strike, 26. involves, 27. lubricated, 28. crack, 29. aid, 30. loose, 31. crust, 32. Radon

33. An mRNA vaccine is a type of vaccine that uses a copy of a molecule called _____ RNA.
- n.* someone or something that carries a message, especially one sent to convey information, news, or an official document
34. Our world is in the third _____.
- n.* a span of 1000 years, or the 1000th anniversary (plural: millennia)
35. The animal rights group worked to _____ the dolphins back into the wild.
- v.* to set free or allow to escape from confinement
36. I will introduce you to how to _____ the leading causes of the malfunction.
- v.* to recognize someone or something and say or prove who or what they are
37. We _____ heavy snowfall tomorrow.
- v.* to expect or predict that something will happen; to tell in advance
38. These issues baffled _____ for many years.
- n.* a scientist or specialist who studies geology
39. The _____ cause of the accident was due to the icy road conditions.
- adj.* first or highest in rank, order, or importance; most fundamental or essential; pertaining to the initial or introductory stage of something, such as a school year or election cycle
40. Babies heavily _____ on others for food.
- v.* to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.

ANSWERS: 33. messenger, 34. millennium, 35. release, 36. identify, 37. anticipate, 38. geologists, 39. primary, 40. rely

41. He was reluctant to leave his comfort _____ and try something new.
n. a specific area, region, or section that is marked off or defined in some way
42. She was diagnosed with a _____ buildup in her lungs.
n. a substance that can flow and is not solid
43. The room was only one _____ wider than the piano, making it a tight fit.
n. a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
44. The company has a strict _____ for handling sensitive information to ensure security.
n. a set of rules or procedures for transmitting data or conducting a process or activity, especially in computer networks or scientific experiments; the initial or original version of an agreement
45. The _____ of stress over time can lead to health problems.
n. the accumulation or increase of something over time
46. The treatments were done but, _____ were unsuccessful.
adv. by bad luck; unluckily
47. Could you help me _____ some furniture?
n. a slight transition in position, direction, or trend
48. Cities around the world set records for highest _____ this summer.
n. the degree of hotness or coldness of a thing or place
49. Management must take _____ responsibility for the accident.
adj. furthest or highest in degree or order

ANSWERS: 41. zone, 42. fluid, 43. centimeter, 44. protocol, 45. buildup, 46. unfortunately, 47. shift, 48. temperatures, 49. ultimate

50. He was _____ to making rash decisions.

adj. inclined or likely to do something or to show a particular characteristic, especially something bad; lying face downward

51. Her library books were _____ so she had to pay a fine to check out more.

adj. past the expected or scheduled time; not completed or paid on time; delayed, tardy, or postponed

52. X-ray inspection revealed many _____.

n. the breaking or cracking of a rigid material or object such as bone

53. _____ is the start, not the end, of intelligence.

n. a feeling of being uncertain about something, especially about how good or accurate it is

54. I always carry a backup _____ in case my phone runs out of battery.

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

55. The way he manages his employees is extremely _____.

adj. allowing or demanding no deviation from a standard; extremely careful, thorough, or accurate

56. I attempted to _____ him, but he ignored me.

v. to make someone aware of potential danger or difficulty, particularly one that may occur in the future

57. New York is a city with a _____ ethnic population.

adj. including numerous categories of individuals or entities; various

ANSWERS: 50. prone, 51. overdue, 52. fractures, 53. Doubt, 54. device, 55. rigorous, 56. warn, 57. diverse

58. The _____ products, such as polonium-216, can have health implications if inhaled.
- n.* the radioactive isotope of radon known as Radon-220, unlike Radon-222, which is the more commonly known isotope of radon and is part of the decay chain of uranium and thorium, often can be found in soil, rocks, and some building materials
59. 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
60. The _____ force of the black hole was so strong that nothing, not even light, could escape.
- adj.* relating to or caused by gravity (= the force that attracts objects towards one another)
61. The construction workers poured a large _____ of concrete for the foundation of the building.
- n.* a flat, rectangular piece of material, such as wood or concrete; often used to describe a large, heavy, or solid object or structure
62. The exam was _____ tricky for everyone.
- adv.* in a way that causes amazement or wonder
63. Have you _____ a response from them yet?
- v.* to obtain information or a reaction from someone, usually with difficulty
64. This ore emits _____ quantities of radiation
- adj.* extremely small; tiny

ANSWERS: 58. thoron-daughter, 59. gratitude, 60. gravitational, 61. slab, 62. surprisingly, 63. elicited, 64. minuscule

65. A _____ audience viewed the broadcast.

adj. enormous in size, number, amount, or quantity

66. _____ dropping wears away the stone.

adj. happening repeatedly or all the time

67. The tower proved to be _____ in the high wind.

adj. lacking solidity, persistence, or firmness and therefore not strong, safe, or likely to continue; lacking control of one's emotions

68. He should _____ more with his colleagues.

v. to communicate or react with somebody

69. The DIY _____ includes a variety of power and hand tools for home repair.

n. a set of tools, materials, or resources that are designed to be used together for a specific purpose or task; a collection of information or techniques that can be used to address a problem or achieve a goal

70. The artist likes to _____ different styles and colors in her paintings.

v. to place two or more things side by side, often to compare or contrast them or to create an effect of surprise or incongruity

71. Nevada is _____ a desert state.

adv. virtually entirely; to a large degree

72. Leonardo da Vinci is considered a _____ for his expertise in various fields such as art, science, and engineering.

n. a person who has expertise or a broad skillset across a range of diverse subjects or areas of knowledge

ANSWERS: 65. vast, 66. Constant, 67. unstable, 68. interact, 69. toolkit, 70. juxtapose, 71. largely, 72. polymath

73. The _____ between the two countries was causing tension.
n. the force that opposes motion between two objects in contact, especially by producing heat and wear, and is proportional to the normal force between the objects
74. The security camera has _____ four intruders.
v. to find or recognize something, especially something difficult to see, hear, etc.
75. The earth began to _____ and he knew he had to leave the building immediately.
v. to shake or vibrate violently and for a short time
76. Rainfall in the tropics is highly _____.
adj. likely to change or vary often; (noun) a symbol, like x or y, that is used in mathematical or logical expressions to represent a value that may be changed
77. Trains are _____ inexpensive, and ideal for long-distance travel.
adj. worthy of being relied on; trustworthy
78. How did he _____ to your idea?
v. to take action in response to something
79. He was a visiting _____ professor at the University of Tokyo.
n. a science that deals with the history of the earth as recorded in rocks
80. _____ displaced part of the mechanism.
n. a continuous quick and slight shaking movement
81. The violent _____ caused widespread damage and injuries throughout the region.
n. a sudden and violent shaking of the ground caused by the movement of rock beneath the earth's surface

ANSWERS: 73. friction, 74. detected, 75. quake, 76. variable, 77. reliable, 78. react, 79. geology, 80. Vibration, 81. earthquake

82. Rebels have pledged to _____ the armed struggle against the dictatorship.
v. to increase or make something increase in extent or strength
83. The incident _____ a political controversy.
v. to make something happen suddenly; to cause something such as a device, machine, etc. to function
84. The _____ carbon-14 is commonly used in radiocarbon dating of fossils.
n. a variation of an element that has the same number of protons in its nucleus but a different number of neutrons, resulting in a different atomic mass and often different physical or chemical properties
85. This exam requires excellent _____ to pass.
n. the ability to focus all your time and energy on one thing without thinking about anything else.
86. It's notoriously challenging to _____ birth rates.
v. to state beforehand that something will happen in the future, mainly based on knowledge or experience
87. Her resistance _____ under his persuasion.
v. to turn from something solid into something soft or liquid as a result of heating
88. Maximum heart rates _____ a lot for each individual.
v. to become different in terms of size, shape, etc.
89. The food chain causes a material _____.
n. an interval during which a recurring sequence of events occurs; a bicycle or motorcycle

ANSWERS: 82. intensify, 83. triggered, 84. isotope, 85. concentration, 86. predict, 87. melted, 88. vary, 89. cycle

90. His religious and philosophical beliefs were utterly _____.

adj. doubting that something is accurate or useful

91. Earthquakes produce two types of _____ waves.

adj. relating to or caused by an earthquake or earth vibration

92. He wants to _____ ownership of the abandoned property.

v. to assert that something is true; to demand or request something as one's own; to lay legal or moral right to something; (noun) a demand or assertion of a right or something that one believes to be true

93. The company's cybersecurity team _____ the CEO to potential threats.

v. to warn or arouse to a sense of danger; (adjective) paying close attention or being in a state of readiness for action

94. The _____ plates shifted, causing an earthquake.

adj. relating to the structure of the Earth's crust and the large-scale processes that occur as a result of movements within it

95. The metal must be _____ before being shaped into the final product.

v. to heat a substance to a temperature higher than its boiling point

96. The toad altered its appearance to better _____ in with its new environments.

v. to mix or combine two or more substances

97. The police couldn't find a _____ to her whereabouts.

n. an object, a piece of evidence, or some information that helps someone to find the answer to a problem, question, or mystery

ANSWERS: 90. skeptical, 91. seismic, 92. claim, 93. alerted, 94. tectonic, 95. superheated, 96. blend, 97. clue

98. 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

99. The _____ material was carefully stored in a lead-lined container.

- adj.* emitting powerful and dangerous energy when the nuclei (= central parts) of atoms are broken up

100. He tried to _____ his experience to the group, but they couldn't understand.

- v.* to establish a connection or association between two or more things; to narrate or tell about an event, experience, or relationship; to empathize or feel sympathy with someone or something

ANSWERS: 98. movement, 99. radioactive, 100. relate