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Vocabulary Builder Reference from...

George Tulevski: The next step in nanotechnology | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

sculptor

n. an artist who creates sculptures, three-dimensional objects, or forms

synonym: carver, modeler, artist

(1) **sculptor** studio, (2) renowned **sculptor**

The famous **sculptor** used various tools to carve the marble into the desired shape.

statue

n. a sculpture of a person or animal, typically made of stone or metal, that is intended to represent the subject in a lifelike or symbolic way

synonym: sculpture, figurine, monument

(1) a beautiful **statue**, (2) the ancient Egyptian **statues**

The **statue** of the famous hero stood proudly in the town square.

chip

n. a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat

synonym: flake, fragment, chunk

(1) a **chip** of wood, (2) I don't care a **chip**

We can use this campaign as a bargaining **chip** in the negotiations.

chisel

n. a tool with a sharpened edge at one end used for shaping wood, stone, or metal; (verb) to engage in deceitful behavior

synonym : gouge, bevel, plane

(1) sharpen **chisel**, (2) **chisel** some money

The archaeologist used a small **chisel** to excavate the ancient artifact.

elegant

adj. pleasing and graceful in appearance or manner, or showing good taste and refinement

synonym : refined, sophisticated, graceful

(1) **elegant** design, (2) write **elegant** sentences

She wore an **elegant** evening gown to the gala.

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**.

opposition

n. the act of disagreeing or resisting; the state of strong disagreement

synonym : resistance, hostility, antagonism

(1) **opposition** campaign, (2) meet with **opposition**

The **opposition** party strongly disagreed with the government's proposed legislation.

solid

adj. hard or firm; characterized by good substantial quality

synonym : stable, reliable, hard

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

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

pile

n. a collection of objects positioned one on top of another; a large sum of something, such as money

synonym : accumulation, heap, stack

(1) a sand **pile**, (2) the height of a **pile**

After the party, they had to clean up **piles** of dirty dishes.

glue

n. a sticky substance used for joining things together; a bonding agent made from animal or synthetic materials

synonym: adhesive, paste, gum

(1) **glue** stick, (2) epoxy **glue**

The carpenter applied **glue** to the cabinet joints before nailing them together.

particle

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

synonym: atom, grain, bit

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

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

absurd

adj. ridiculously silly, unreasonable, or illogical

synonym: ridiculous, foolish, idiotic

(1) **absurd** storyline, (2) an **absurd** amount of money

We immediately rejected his **absurd** suggestion.

compel

v. to force or require someone to do something; to exert a strong, irresistible force or pressure that makes someone act in a certain way

synonym: force, oblige, coerce

(1) **compel** a person to submission, (2) **compel** attention

The strict deadlines will **compel** the team to work efficiently.

odd

adj. strange or unexpected; not divisible by two

synonym: strange, bizarre, abnormal

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

His grandfather was an **odd** man.

lab

n. a workplace for the conduct of scientific research; a laboratory

synonym: workshop, laboratory, research chamber

(1) **lab** instrument, (2) medical **lab**

The Prime Minister will pay a courtesy visit to the Nobel laureate's **lab**.

nanoscale

adj. on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale

(1) **nanoscale** device, (2) things at the **nanoscale**

This process improves the strength of the metal by controlling the **nanoscale** lattice structure of the metal.

fascinating

adj. extremely interesting

synonym: alluring, intriguing, captivating

(1) **fascinating** story, (2) completely **fascinating** to me

The museum houses a **fascinating** collection of Celtic artifacts.

nanoparticle

n. a particle of matter that is between 1 and 100 nanometres (nm) in diameter

(1) aluminum **nanoparticle**, (2) atmospheric **nanoparticle**

For some creatures, carbon **nanoparticles** are deadly.

graduate

n. a person who has a first degree from university or college; (verb) to complete the first course of university or college and get a degree

synonym: alumna, alum, grad

(1) **graduate** degree program, (2) honor **graduate**

Many employers hire **graduate** trainees to train as managers.

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.

breakthrough

n. a sudden, dramatic, and important discovery or development that helps to improve a situation or provide

an answer to a problem

synonym: advance, progress, innovation

(1) **breakthrough** in the negotiations, (2) **breakthrough** discovery

A technique called deep learning has led to **breakthroughs** in AI.

confer

v. to have a meeting or discussion to come to a decision or agreement or exchange ideas; to bestow something

synonym: consult, meet, discuss

(1) **confer** degree, (2) **confer** honor

The leaders of the two countries met to **confer** on the issue.

buzz

v. to make a continuous, low humming sound such as the one a bee makes; an exciting and active atmosphere

synonym: hum, murmur, whisper

(1) the **buzz** of a cicada, (2) **buzz** marketing

I heard the **buzz** of conversation from the next room.

govern

v. to legally control and direct a country, city, group of people, etc. and be responsible for introducing new laws, organizing and maintaining public services

synonym: control, rule, preside

(1) a nation's right to **govern**, (2) **govern** a public enterprise

The regulations **governing** medical malpractice claims are rigorous.

physics

n. the science of matter and energy and their interactions

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

He studied the **physics** of radiation.

ordinary

adj. not different, exceptional, or unexpected in any way, especially in quality, ability, size, or degree

synonym: mundane, prosaic, average

(1) an **ordinary** school, (2) **ordinary** annual revenue

The **ordinary** session of the Diet opened.

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.

quantum

n. the smallest amount or unit of something, especially (electromagnetic) energy

(1) probabilistic **quantum** theory, (2) laws of **quantum** mechanics

Big techs are now eager to develop **quantum** computers.

mechanics

n. the branch of physics that deals with the study of motion, forces, and energy; (mechanic) someone whose occupation is repairing and maintaining automobiles

synonym: kinematics, dynamics

(1) **mechanics** equation, (2) **mechanics** of the game

He studied **mechanics** in college and now works as an engineer.

precise

adj. sharply exact or accurate or delimited

synonym: accurate, exact, distinct

(1) **precise** analyses, (2) estimate **precise** costs

The content is **precise** and informative for me.

atom

n. the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus

synonym: particle, element, fraction

(1) oxygen **atom**, (2) neutral hydrogen **atoms**

The outermost electron shell of an **atom** determines its chemical characteristics.

twist

v. to bend or turn something into a certain shape

synonym: wrench, turn, twirl

(1) **twist** around to the left, (2) **twist** a wet towel

He **twisted** pieces of rope out of straw.

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.

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.

empower

v. to give someone the power or authority to do something

synonym : authorize, endow, entitle

(1) **empower** my life, (2) **empower** the secretary to do the same

The company **empowered** employees to buy low-price items without approval to achieve efficient purchasing.

blazing

adj. burning and emitting intense heat and light; powerful and impressive

synonym : burning, fiery, scorching

(1) **blazing** fury, (2) **blazing** fire

The **blazing** sun beat down on the desert.

construct

v. to build or create something; to assemble or combine different parts to form something whole

synonym : build, assemble, create

(1) **construct** a 3D image, (2) **construct** a dam

He **constructs** hypotheses that no mathematician has ever imagined before.

- dot** *n.* a very small circular mark, especially one that is printed
synonym : drop, dab, fleck
(1) connecting the **dots**, (2) **dot** blot method
The wallpaper had a pattern of pink **dots** on a white surface.
- disease** *n.* a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems
synonym : illness, ailment, affliction
(1) **disease** prevention, (2) **disease** control
The doctor diagnosed him with a rare **disease** that had no known cure.
- elevator** *n.* a mechanical device used for vertical transportation, typically in multi-story buildings, consisting of a compartmentalized platform that moves between floors
synonym : lift, hoist
(1) **elevator** ride, (2) modern **elevator**
The hotel's **elevator** was out of order, so we had to take the stairs to our room on the fifth floor.
- carbon** *n.* a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals
(1) **carbon** dioxide, (2) **carbon** emission
Trees absorb **carbon** dioxide and give off oxygen.
- nanotube** *n.* a tube-shaped structure that is composed of very small particles, typically with a diameter of a few nanometers; nanotubes are used in a variety of applications, including electronics and materials science
(1) **nanotube** technology, (2) metallic **nanotube**
Carbon **nanotubes** are used in various fields of science and technology due to their unique properties.
- compute** *v.* to make a mathematical calculation
synonym : calculate

(1) **compute** an average score, (2) **compute** the value
I tried to **compute** the efficiency of the investment.

medicinal

adj. of or relating to the treatment or cure of disease

synonym: curative, therapeutic, healing

(1) **medicinal** chemistry, (2) traditional **medicinal**

The **medicinal** properties of this herb have been known to help with various ailments.

fantastic

adj. extremely good; excellent

synonym: incredible, unbelievable, marvelous

(1) a **fantastic** dress, (2) absolutely **fantastic** event

The new amusement park ride was **fantastic**, with twists, turns, and drops that left riders screaming with excitement.

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.

double-edged

adj. having two sharp edges or sides, especially one that can harm or benefit in equal measure; (of sword or blade) having two cutting edges

synonym: two-sided, ambivalent, ambiguous

(1) a **double-edged** compliment, (2) **double-edged** tool

The **double-edged** sword could be used for both offense and defense.

excitement

n. a feeling of great enthusiasm and eagerness

synonym: thrill, exhilaration, incitement

(1) the **excitement** in the business world, (2) aesthetic **excitement**

The **excitement** of the upcoming concert was palpable among the crowd.

- bot**
- n.* a computer program or software application that is capable of performing automated tasks, often on the internet; a type of electronic device that provides autonomous service or assistance to users
- synonym* : robot, droid, android
- (1) spam **bot**, (2) **bot** detection
- The translation **bot** helped me translate a website from another country.
- pace**
- n.* the speed at which someone or something moves, or the rate at which something happens or changes
- synonym* : gait, rate, speed
- (1) at your own **pace**, (2) the runner's **pace**
- The economy is growing at a supercharged **pace**.
- advancement**
- n.* the development, improvement, or progress of something
- synonym* : progression, breakthrough, improvement
- (1) **advancement** of knowledge, (2) career **advancement**
- Competition between countries resulted in fast technological **advancement**.
- indefinitely**
- adv.* without any fixed or definite limit; for an unknown or unspecified period of time
- synonym* : endlessly, permanently, perpetually
- (1) postpone a meeting **indefinitely**, (2) **indefinitely** suspended
- The construction project has been delayed **indefinitely** due to the pandemic.
- 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.

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.

consume

v. to spend something, especially fuel, energy, or time, in a large amount

synonym : absorb, ingest, use up

(1) **consume** a large of alcohol, (2) **consume** electricity

A smaller car will **consume** less fuel.

convergent

adj. tending to come together or meet at a point; merging or intersecting; characterized by similarities or commonalities, particularly in different fields or areas of knowledge

synonym : merging, meeting

(1) **convergent** beam, (2) **convergent** thinking

The similarities between the two cultures suggest **convergent** evolution.

incredible

adj. unbelievable; enormous

synonym : unbelievable, fantastical, inconceivable

(1) **incredible** amount, (2) at **incredible** speed

Her response revealed **incredible** idiocy.

compress

v. to press or squeeze together to make something take up less space

synonym : condense, constrict, squeeze

(1) **compress** the chest, (2) **compress** gas

She **compressed** the files into a single ZIP archive to save space on her computer.

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**.

buck

n. a male deer; a unit of currency, especially the US dollar; a sudden jolt or movement; a young man; (verb) to resist or oppose something, such as an authority, trend, or convention

synonym: dollar, money, currency

(1) **buck** the trend, (2) extra **buck**

I spotted a majestic **buck** with large antlers standing at the forest's edge.

toss

v. to throw something carelessly with a light motion

synonym: throw, sway

(1) **toss** a coin, (2) **toss** the bottle into a trash can

It would be best if you **tossed** out all those old magazines.

impressive

adj. arousing admiration due to size, quality, or skill

synonym: impactful, remarkable, exceptional

(1) **impressive** performances, (2) an **impressive** array of facts

The budget reduction was an **impressive** feat for our nation.

episode

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

synonym: event, chapter, seizure

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

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

progression

n. the act or process of changing to the next stage or phase or moving forward

synonym: advancement, development, evolution

(1) **progression** of civilization, (2) **progression** of disease
The company has made great strides in its **progression** toward sustainability.

gradual

adj. happening slowly over a long period of time or distance; not steep or abrupt

synonym: incremental, gradational, piecemeal

(1) a **gradual** process, (2) a **gradual** change

The country experienced a **gradual** increase in population.

relentless

adj. persistent and determined; continuing despite difficulties or setbacks

synonym: unyielding, tireless, unremitting

(1) **relentless** attack, (2) face **relentless** pressure

The athlete's **relentless** training paid off in the end.

exponential

adj. becoming more and more rapid; of or involving mathematical exponents

(1) **exponential** growth, (2) **exponential** function

Since the 1990s, the Internet has continued to experience **exponential** growth.

compound

n. an item composed of two or more distinct elements combined; a chemical formed by the combination of two or more elements

synonym: combination, mixture, blend

(1) aquatic **compound**, (2) harmful **compound**

Common salt is a sodium and chlorine **compound**.

recognizable

adj. easy to become aware of or identify

synonym: noticeable, perceptible, definite

(1) to a **recognizable** degree, (2) **recognizable** landmark

His car was easily **recognizable** in the parking lot.

alcohol

n. a clear liquid that can make people drunk and is used in medicines, cleaning products, etc.

synonym: booze, liquor, ethanol

(1) stop drinking **alcohol**, (2) diluted **alcohol**

There is a clear association between **alcohol** consumption and cognitive decline.

halt

v. to bring or come to a stop; to force to stop moving or operating

synonym: stop, cease, terminate

(1) **halt** production, (2) **halt** progress

The train came to a **halt** at the station.

innovate

v. to introduce new methods, ideas, or products

synonym: bring in, introduce, found

(1) **innovate** a new method, (2) **innovate** the quality of his life

Companies developing self-driving cars consistently **innovate** the emerging technologies.

employ

v. to give somebody a job and pay them for it; to make use of

synonym: hire, engage, use

(1) **employ** job seekers, (2) **employ** a new method

When making arrests, police officers frequently **employ** excessive force.

hollow

adj. having a hole, empty space inside, or indentation on the surface

synonym: cavity, depression, concavity

(1) have **hollow** legs, (2) **hollow** sound

The tree had a **hollow** trunk, which made it easy for animals to take shelter inside.

tube

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

synonym: pipe, hose, duct

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

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

outstanding

adj. superior to others in excellence; not yet paid, completed, etc.

synonym : distinguished, excellent, unprecedented

(1) an **outstanding** new record, (2) pay **outstanding** debts
It's an area of **outstanding** natural beauty.

electron

n. a tiny particle with the negative electrical charge

synonym : negatron

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

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

improve

v. to make or become better

synonym : enhance, ameliorate, enrich

(1) **improve** a process, (2) **improve** the test score

We want to **improve** ties between our two countries.

skip

v. to move along lightly and quickly, making a step from one foot to the other with a hop or bounce; to intentionally fail to do something which would normally do

synonym : bounce, spring, neglect

(1) **skip** across the country, (2) **skip** breakfast

We **skipped** the topic because it was too complicated.

scream

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

synonym : cry, shout, yell

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

She kept **screaming** for an ambulance.

arrange

v. to plan, prepare for, and carry out something

synonym : set up, order, organize

(1) **arrange** the meeting, (2) the list was **arranged**

alphabetically

I need to **arrange** plans with him for the celebration.

conundrum

n. a confusing and difficult problem or question

synonym: puzzle, riddle, enigma

(1) **conundrum** of choice, (2) pose a **conundrum**

The group faced a **conundrum** when they couldn't decide whether to go hiking or to the beach.

undying

adj. (especially of feelings or beliefs) lasting forever

synonym: endless, eternal, immortal

(1) his **undying** fame, (2) swear **undying** devotion to her

He pledged his **undying** love for his wife.

godfather

n. a male godparent who witnesses a child's baptism and accepts a spiritual responsibility for their upbringing; a trusted mentor or advisor who has significant influence and offers support and guidance in personal or professional matters

synonym: sponsor, mentor, protector

(1) political **godfather**, (2) be my **godfather** at my christening

The wealthy businessman acted as a **godfather** to his protege, helping him to succeed in his career.

betray

v. to reveal or deliver to an enemy by treachery or disloyalty; to reveal something unintentionally

synonym: fail, denounce, display

(1) **betray** a friend, (2) **betray** confidence

He felt **betrayed** when his best friend revealed their secret to the enemy.

upset

adj. causing or marked by anxiety, uneasiness, trouble, or grief; (verb) to make someone anxious, unhappy, or angry

synonym: disturbed, bothered, resentful

(1) get **upset**, (2) have an **upset** stomach

He was awfully **upset** by the news.

convince

v. to persuade someone or make someone believe that something is true

synonym: persuade, win over, convert

(1) **convince** her to go with us, (2) **convince** an opponent
I am considering what I should do to **convince** him.

assemble

v. to collect in one place as a single group

synonym: gather, congregate, collect

(1) **assemble** your colleagues, (2) **assemble** a jigsaw puzzle

The president began to **assemble** an army.

trivial

adj. of little value or importance

synonym: insignificant, minor, unimportant

(1) a **trivial** man, (2) for **trivial** reasons

The problem seemed **trivial** initially, but it became a significant issue.

alien

n. a person who comes from a different country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere

synonym: foreigner, unfamiliar, unknown

(1) **alien** fungi, (2) resident **aliens**

Alien species have drastically altered the ecosystem in this area.

protein

n. a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues

(1) stress **protein**, (2) **protein** synthesis

The body needs a certain amount of **protein** to build and repair tissues.

molecule

n. a group of two or more atoms held together by attractive forces known as chemical bonds

synonym : particle, element, atom

(1) small **molecules**, (2) **molecule** behavior

The shape of the DNA **molecule** is a double helix.

template

n. a pre-designed file or document used as a starting point for a particular application so that the format does not have to be created from scratch

synonym : pattern, model, blueprint

(1) **template** file, (2) **template** design

The **template** format provided a useful guide for creating the budget.

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.

sand

n. finely granulated particles of rock or mineral material typically found along beaches, deserts, or riverbeds; used in construction, landscaping, and other applications requiring drainage or abrasive action

synonym : grit, dust, powder

(1) **sand** dunes, (2) **sand** castle

The **sand** on the beach was warm and golden.

pluck

v. to pull or draw something, especially with sudden force or effort; to strip of feathers

synonym : grab, pull out, pick

(1) **pluck** a gray hair, (2) **pluck** out weeds

She **plucked** the flowers off the bush.

extraordinary

adj. exceptional, unexpected, very unusual; surpassing the ordinary or usual

synonym : exceptional, noteworthy, astonishing

(1) **extraordinary** ability, (2) **extraordinary** weather

He narrated the **extraordinary** story of his adventure.

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.

extreme

adj. very great in amount or degree

synonym: farthestmost, outermost, fierce

(1) **extreme** sports, (2) **extreme** weather events

Solar gravity creates **extreme** pressures and temperatures.

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.

crude

adj. being in an unrefined or natural state; (noun) the unprocessed form of oil

synonym: unrefined, native, vulgar

(1) price of **crude** oil, (2) **crude** manners

His **crude** jokes made her angry.

hack

v. to hit and cut somebody or something roughly and violently; to find a bug in a computer program and break into their systems or networks

synonym: cut, chop, crack

(1) **hack** through the jungle, (2) **hack** into the program

This blog offers a variety of tips for **hacking** everyday life.

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.

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.

decide

v. to make up someone's mind about something; to come to a conclusion or judgment after considering options

synonym: choose, determine, settle

(1) **decide** a question, (2) **decide** on a course of action

She couldn't **decide** whether to order the pizza or the pasta for dinner.

chemistry

n. the branch of the natural sciences dealing with the composition of substances and their properties and reactions

(1) professor of **chemistry**, (2) the **chemistry** of soil

He is familiar with **chemistry** and biology.

steer

v. to control the direction or movement of a vehicle; to direct a course of action; to guide or motivate someone

synonym: guide, direct, control

(1) **steer** a steady course, (2) **steer** a conversation

The captain told him to **steer** the ship north.

develop

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

synonym: evolve, progress, advance

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

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

circuit

n. (in electrical engineering) an electrical device that provides a path for electrical current to flow; a journey or route around a particular place or area

synonym : route, course, rotation

(1) **circuit** breaker, (2) federal **circuit** courts

An intelligent battery has a voltage monitoring **circuit**.

eventually

adv. finally, particularly after a long time or a lot of struggle, complications, and so on

synonym : finally, someday, ultimately

(1) **eventually** become obsolete, (2) **eventually** succeed

The corporation **eventually** dominated the entire tobacco business.

invest

v. to put money, effort, time, etc. into something to make a profit or achieve a result

synonym : fund, sponsor, support

(1) **invest** in stocks, (2) **invest** capital

The government should view children as national assets and actively **invest** in them.

renewable

adj. capable of being renewed, extended, or replaced

synonym : sustainable, replaceable

(1) **renewable** energy, (2) **renewable** subscriptions

The production of **renewable** fuels requires massive volumes of fresh water.

structural

adj. associated with the way on construction or organization of anything

synonym : architectural, basic, anatomical

(1) **structural** analyses, (2) **structural** reorganization

The earthquake resulted in significant **structural** destruction.

appreciate

v. to value and acknowledge the worth of someone or something; to be grateful for something or someone

synonym: acknowledge, admire, enjoy

(1) **appreciate** her feedback, (2) **appreciate** the value

We would **appreciate** an early reply.

Session 2: Spelling

1. get up__t *adj.* causing or marked by anxiety, uneasiness, trouble, or grief; (verb) to make someone anxious, unhappy, or angry
2. modern el____or *n.* a mechanical device used for vertical transportation, typically in multi-story buildings, consisting of a compartmentalized platform that moves between floors
3. arc_____ure design *n.* the art and science of designing and constructing buildings
4. ex____ng football player *adj.* causing a lot of interest or excitement
5. in____ct directly with customers *v.* to communicate or react with somebody
6. for tr____l reasons *adj.* of little value or importance
7. aluminum nan_____cle *n.* a particle of matter that is between 1 and 100 nanometres (nm) in diameter
8. a glass t__e *n.* a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape
9. be my go_____er at my christening *n.* a male godparent who witnesses a child's baptism and accepts a spiritual responsibility for their upbringing; a trusted mentor or advisor who has significant influence and offers support and guidance in personal or professional matters

ANSWERS: 1. upset, 2. elevator, 3. architecture, 4. exciting, 5. interact, 6. trivial, 7. nanoparticle, 8. tube, 9. godfather

10. a c__p of wood *n.* a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat
11. co___l a person to submission *v.* to force or require someone to do something; to exert a strong, irresistible force or pressure that makes someone act in a certain way
12. 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
13. in_____ct with one another *v.* to communicate or react with somebody
14. ex_____ng news *adj.* causing a lot of interest or excitement
15. a nation's right to go___n *v.* to legally control and direct a country, city, group of people, etc. and be responsible for introducing new laws, organizing and maintaining public services
16. b_t detection *n.* a computer program or software application that is capable of performing automated tasks, often on the internet; a type of electronic device that provides autonomous service or assistance to users
17. the ancient Egyptian st___es *n.* a sculpture of a person or animal, typically made of stone or metal, that is intended to represent the subject in a lifelike or symbolic way
18. co_____ce an opponent *v.* to persuade someone or make someone believe that something is true

ANSWERS: 10. chip, 11. compel, 12. structure, 13. interact, 14. exciting, 15. govern, 16. bot, 17. statue, 18. convince

19. b__z marketing *v.* to make a continuous, low humming sound such as the one bee makes; an exciting and active atmosphere
20. bre____ugh discovery *n.* a sudden, dramatic, and important discovery or development that helps to improve a situation or provide an answer to a problem
21. charged pa____le *n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance
22. an ab____d amount of money *adj.* ridiculously silly, unreasonable, or illogical
23. diluted al____l *n.* a clear liquid that can make people drunk and is used in medicines, cleaning products, etc.
24. an imp____ve array of facts *adj.* arousing admiration due to size, quality, or skill
25. sc____m a profanity *v.* to give a loud, high shout suddenly, especially because of fear, anger, excitement, etc.; to utter or declare in a very loud voice
26. ca____n emission *n.* a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals
27. eve____ly succeed *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
28. in an o_d way *adj.* strange or unexpected; not divisible by two

ANSWERS: 19. buzz, 20. breakthrough, 21. particle, 22. absurd, 23. alcohol, 24. impressive, 25. scream, 26. carbon, 27. eventually, 28. odd

29. t__s a coin *v.* to throw something carelessly with a light motion
30. aquatic co____nd *n.* an item composed of two or more distinct elements combined; a chemical formed by the combination of two or more elements
31. sma_____ne app developer *n.* a mobile phone that functions as a computer and connects to the Internet
32. ess_____ly correct *adv.* relating to the essential features or concepts of anything
33. extra b__k *n.* a male deer; a unit of currency, especially the US dollar; a sudden jolt or movement; a young man; (verb) to resist or oppose something, such as an authority, trend, or convention
34. ci_____t breaker *n.* (in electrical engineering) an electrical device that provides a path for electrical current to flow; a journey or route around a particular place or area
35. pose a co_____um *n.* a confusing and difficult problem or question
36. co_____ce her to go with us *v.* to persuade someone or make someone believe that something is true
37. em_____r the secretary to do the same *v.* to give someone the power or authority to do something
38. di_____e control *n.* a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems

ANSWERS: 29. toss, 30. compound, 31. smartphone, 32. essentially, 33. buck, 34. circuit, 35. conundrum, 36. convince, 37. empower, 38. disease

39. dou_____ged tool *adj.* having two sharp edges or sides, especially one that can harm or benefit in equal measure; (of sword or blade) having two cutting edges
40. be___y confidence *v.* to reveal or deliver to an enemy by treachery or disloyalty; to reveal something unintentionally
41. 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
42. sma_____ne addict *n.* a mobile phone that functions as a computer and connects to the Internet
43. small mo_____les *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
44. co_____e the value *v.* to make a mathematical calculation
45. pr_____n synthesis *n.* a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues
46. co_____e a large of alcohol *v.* to spend something, especially fuel, energy, or time, in a large amount
47. sharpen ch___l *n.* a tool with a sharpened edge at one end used for shaping wood, stone, or metal; (verb) to engage in deceitful behavior

ANSWERS: 39. double-edged, 40. betray, 41. economy, 42. smartphone, 43. molecule, 44. compute, 45. protein, 46. consume, 47. chisel

48. ind_____ely suspended *adv.* without any fixed or definite limit; for an unknown or unspecified period of time
49. a dou_____ged compliment *adj.* having two sharp edges or sides, especially one that can harm or benefit in equal measure; (of sword or blade) having two cutting edges
50. his un_____g fame *adj.* (especially of feelings or beliefs) lasting forever
51. the height of a p__e *n.* a collection of objects positioned one on top of another; a large sum of something, such as money
52. atmospheric nan_____cle *n.* a particle of matter that is between 1 and 100 nanometres (nm) in diameter
53. re_____le subscriptions *adj.* capable of being renewed, extended, or replaced
54. s__d castle *n.* finely granulated particles of rock or mineral material typically found along beaches, deserts, or riverbeds; used in construction, landscaping, and other applications requiring drainage or abrasive action
55. b__k the trend *n.* a male deer; a unit of currency, especially the US dollar; a sudden jolt or movement; a young man; (verb) to resist or oppose something, such as an authority, trend, or convention
56. 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

ANSWERS: 48. indefinitely, 49. double-edged, 50. undying, 51. pile, 52. nanoparticle, 53. renewable, 54. sand, 55. buck, 56. discovery

57. ex____e weather events *adj.* very great in amount or degree
58. co____l attention *v.* to force or require someone to do something; to exert a strong, irresistible force or pressure that makes someone act in a certain way
59. price of cr__e oil *adj.* being in an unrefined or natural state; (noun) the unprocessed form of oil
60. ca____n dioxide *n.* a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals
61. na____be technology *n.* a tube-shaped structure that is composed of very small particles, typically with a diameter of a few nanometers; nanotubes are used in a variety of applications, including electronics and materials science
62. cr__e manners *adj.* being in an unrefined or natural state; (noun) the unprocessed form of oil
63. the ul____te luxury *adj.* furthest or highest in degree or order
64. write el____t sentences *adj.* pleasing and graceful in appearance or manner, or showing good taste and refinement
65. l_b instrument *n.* a workplace for the conduct of scientific research; a laboratory
66. in____t in stocks *v.* to put money, effort, time, etc. into something to make a profit or achieve a result

ANSWERS: 57. extreme, 58. compel, 59. crude, 60. carbon, 61. nanotube, 62. crude, 63. ultimate, 64. elegant, 65. lab, 66. invest

67. co____ss the chest *v.* to press or squeeze together to make something take up less space
68. ar____e the meeting *v.* to plan, prepare for, and carry out something
69. the b__z of a cicada *v.* to make a continuous, low humming sound such as the one bee makes; an exciting and active atmosphere
70. co____r honor *v.* to have a meeting or discussion to come to a decision or agreement or exchange ideas; to bestow something
71. exp____al growth *adj.* becoming more and more rapid; of or involving mathematical exponents
72. h__k through the jungle *v.* to hit and cut somebody or something roughly and violently; to find a bug in a computer program and break into their systems or networks
73. na____le device *adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
74. o_d behavior *adj.* strange or unexpected; not divisible by two
75. flow of el____ons *n.* a tiny particle with the negative electrical charge
76. the ul____te goal in life *adj.* furthest or highest in degree or order
77. in____te the quality of his life *v.* to introduce new methods, ideas, or products
78. a capillary t__e *n.* a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape

ANSWERS: 67. compress, 68. arrange, 69. buzz, 70. confer, 71. exponential, 72. hack, 73. nanoscale, 74. odd, 75. electron, 76. ultimate, 77. innovate, 78. tube

79. in_____te a new method *v.* to introduce new methods, ideas, or products
80. de___e on a course of action *v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options
81. app_____te her feedback *v.* to value and acknowledge the worth of someone or something; to be grateful for something or someone
82. tracking de___e *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
83. spam b_t *n.* a computer program or software application that is capable of performing automated tasks, often on the internet; a type of electronic device that provides autonomous service or assistance to users
84. ch___l some money *n.* a tool with a sharpened edge at one end used for shaping wood, stone, or metal; (verb) to engage in deceitful behavior
85. bl_____g fury *adj.* burning and emitting intense heat and light; powerful and impressive
86. epoxy g___e *n.* a sticky substance used for joining things together; a bonding agent made from animal or synthetic materials
87. beam of el_____ons *n.* a tiny particle with the negative electrical charge

ANSWERS: 79. innovate, 80. decide, 81. appreciate, 82. device, 83. bot, 84. chisel, 85. blazing, 86. glue, 87. electron

88. me_____cs of the game *n.* the branch of physics that deals with the study of motion, forces, and energy; (mechanic) someone whose occupation is repairing and maintaining automobiles
89. absolutely fa_____ic event *adj.* extremely good; excellent
90. a fa_____ic dress *adj.* extremely good; excellent
91. adv_____nt of knowledge *n.* the development, improvement, or progress of something
92. renowned sc_____or *n.* an artist who creates sculptures, three-dimensional objects, or forms
93. 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
94. a gr_____l change *adj.* happening slowly over a long period of time or distance; not steep or abrupt
95. pro_____on of disease *n.* the act or process of changing to the next stage or phase or moving forward
96. tw__t around to the left *v.* to bend or turn something into a certain shape
97. laws of ph_____s *n.* the science of matter and energy and their interactions
98. meet with opp_____on *n.* the act of disagreeing or resisting; the state of strong disagreement
99. stress pr_____n *n.* a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues

ANSWERS: 88. mechanics, 89. fantastic, 90. fantastic, 91. advancement, 92. sculptor, 93. discovery, 94. gradual, 95. progression, 96. twist, 97. physics, 98. opposition, 99. protein

100. al__n fungi *n.* a person who comes from a different country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere
101. postpone a meeting ind_____ely *adv.* without any fixed or definite limit; for an unknown or unspecified period of time
102. so__d employment measures *adj.* hard or firm; characterized by good substantial quality
103. go___n a public enterprise *v.* to legally control and direct a country, city, group of people, etc. and be responsible for introducing new laws, organizing and maintaining public services
104. aesthetic exc_____nt *n.* a feeling of great enthusiasm and eagerness
105. s__p breakfast *v.* to move along lightly and quickly, making a step from one foot to the other with a hop or bounce; to intentionally fail to do something which would normally do
106. federal ci_____t courts *n.* (in electrical engineering) an electrical device that provides a path for electrical current to flow; a journey or route around a particular place or area
107. con_____nt beam *adj.* tending to come together or meet at a point; merging or intersecting; characterized by similarities or commonalities, particularly in different fields or areas of knowledge
108. the ch_____ry of soil *n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions

ANSWERS: 100. alien, 101. indefinitely, 102. solid, 103. govern, 104. excitement, 105. skip, 106. circuit, 107. convergent, 108. chemistry

109. or_____ry annual revenue *adj.* not different, exceptional, or unexpected in any way, especially in quality, ability, size, or degree
110. probabilistic qu_____m theory *n.* the smallest amount or unit of something, especially (electromagnetic) energy
111. opp_____on campaign *n.* the act of disagreeing or resisting; the state of strong disagreement
112. pl__k out weeds *v.* to pull or draw something, especially with sudden force or effort; to strip of feathers
113. in____t capital *v.* to put money, effort, time, etc. into something to make a profit or achieve a result
114. the list was ar_____ed alphabetically *v.* to plan, prepare for, and carry out something
115. em____y job seekers *v.* to give somebody a job and pay them for it; to make use of
116. a tr_____l man *adj.* of little value or importance
117. co_____ss gas *v.* to press or squeeze together to make something take up less space
118. pl__k a gray hair *v.* to pull or draw something, especially with sudden force or effort; to strip of feathers
119. h__t progress *v.* to bring or come to a stop; to force to stop moving or operating
120. ex_____e sports *adj.* very great in amount or degree
121. sc____m at him to be quiet *v.* to give a loud, high shout suddenly, especially because of fear, anger, excitement, etc.; to utter or declare in a very loud voice

ANSWERS: 109. ordinary, 110. quantum, 111. opposition, 112. pluck, 113. invest, 114. arrange, 115. employ, 116. trivial, 117. compress, 118. pluck, 119. halt, 120. extreme, 121. scream

122. be___y a friend *v.* to reveal or deliver to an enemy by treachery or disloyalty; to reveal something unintentionally
123. a gr_____l process *adj.* happening slowly over a long period of time or distance; not steep or abrupt
124. s__p across the country *v.* to move along lightly and quickly, making a step from one foot to the other with a hop or bounce; to intentionally fail to do something which would normally do
125. 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
126. fas_____ng story *adj.* extremely interesting
127. ho___w sound *adj.* having a hole, empty space inside, or indentation on the surface
128. im_____e the test score *v.* to make or become better
129. str_____al reorganization *adj.* associated with the way on construction or organization of anything
130. s__d dunes *n.* finely granulated particles of rock or mineral material typically found along beaches, deserts, or riverbeds; used in construction, landscaping, and other applications requiring drainage or abrasive action
131. neutral hydrogen a__ms *n.* the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus

ANSWERS: 122. betray, 123. gradual, 124. skip, 125. toolkit, 126. fascinating, 127. hollow, 128. improve, 129. structural, 130. sand, 131. atom

132. de___e a question *v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options
133. bre_____ugh in the negotiations *n.* a sudden, dramatic, and important discovery or development that helps to improve a situation or provide an answer to a problem
134. mo_____le behavior *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
135. I don't care a c__p *n.* a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat
136. have an up__t stomach *adj.* causing or marked by anxiety, uneasiness, trouble, or grief; (verb) to make someone anxious, unhappy, or angry
137. sc_____or studio *n.* an artist who creates sculptures, three-dimensional objects, or forms
138. d_t blot method *n.* a very small circular mark, especially one that is printed
139. 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
140. t__s the bottle into a trash can *v.* to throw something carelessly with a light motion
141. tw__t a wet towel *v.* to bend or turn something into a certain shape

ANSWERS: 132. decide, 133. breakthrough, 134. molecule, 135. chip, 136. upset, 137. sculptor, 138. dot, 139. diversity, 140. toss, 141. twist

142. at your own p__e *n.* the speed at which someone or something moves, or the rate at which something happens or changes
143. imp_____ve performances *adj.* arousing admiration due to size, quality, or skill
144. at inc_____le speed *adj.* unbelievable; enormous
145. str_____al analyses *adj.* associated with the way on construction or organization of anything
146. eve_____ly become obsolete *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
147. de_____p a strategy *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
148. app_____te the value *v.* to value and acknowledge the worth of someone or something; to be grateful for something or someone
149. the runner's p__e *n.* the speed at which someone or something moves, or the rate at which something happens or changes
150. te_____te design *n.* a pre-designed file or document used as a starting point for a particular application so that the format does not have to be created from scratch
151. oxygen a__m *n.* the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus

ANSWERS: 142. pace, 143. impressive, 144. incredible, 145. structural, 146. eventually, 147. develop, 148. appreciate, 149. pace, 150. template, 151. atom

152. inc_____le amount *adj.* unbelievable; enormous
153. an out_____ng new record *adj.* superior to others in excellence; not yet paid, completed, etc.
154. political go_____er *n.* a male godparent who witnesses a child's baptism and accepts a spiritual responsibility for their upbringing; a trusted mentor or advisor who has significant influence and offers support and guidance in personal or professional matters
155. connecting the d_ts *n.* a very small circular mark, especially one that is printed
156. g__e stick *n.* a sticky substance used for joining things together; a bonding agent made from animal or synthetic materials
157. a sand p__e *n.* a collection of objects positioned one on top of another; a large sum of something, such as money
158. 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
159. st__r a conversation *v.* to control the direction or movement of a vehicle; to direct a course of action; to guide or motivate someone
160. el_____t design *adj.* pleasing and graceful in appearance or manner, or showing good taste and refinement

ANSWERS: 152. incredible, 153. outstanding, 154. godfather, 155. dot, 156. glue, 157. pile, 158. toolkit, 159. steer, 160. elegant

161. professor of ch_____ry *n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions
162. 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
163. pro_____on of civilization *n.* the act or process of changing to the next stage or phase or moving forward
164. con_____nt thinking *adj.* tending to come together or meet at a point; merging or intersecting; characterized by similarities or commonalities, particularly in different fields or areas of knowledge
165. di_____e prevention *n.* a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems
166. 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
167. ep_____e of vertigo *n.* a happening or story that is distinctive in a series of related events; an abrupt short period during which someone suffers from the effects of a physical or mental illness
168. cognitive com_____ty *n.* the state or quality of being complicated or intricate and difficult to understand

ANSWERS: 161. chemistry, 162. structure, 163. progression, 164. convergent, 165. disease, 166. diversity, 167. episode, 168. complexity

169. em___y a new method
v. to give somebody a job and pay them for it; to make use of
170. career adv_____nt
n. the development, improvement, or progress of something
171. re_____le energy
adj. capable of being renewed, extended, or replaced
172. h__t production
v. to bring or come to a stop; to force to stop moving or operating
173. 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
174. exp_____al function
adj. becoming more and more rapid; of or involving mathematical exponents
175. classic arc_____ure
n. the art and science of designing and constructing buildings
176. co_____ct a dam
v. to build or create something; to assemble or combine different parts to form something whole
177. pr_____e analyses
adj. sharply exact or accurate or delimited
178. the exc_____nt in the business world
n. a feeling of great enthusiasm and eagerness
179. harmful co_____nd
n. an item composed of two or more distinct elements combined; a chemical formed by the combination of two or more elements

ANSWERS: 169. employ, 170. advancement, 171. renewable, 172. halt, 173. economy, 174. exponential, 175. architecture, 176. construct, 177. precise, 178. excitement, 179. compound

180. tr_____te the emotion to a movement
v. to convert or change words into another language
181. pa_____le energy
n. a small piece of something; a word or piece of a term with grammatical function but little or no significance
182. co_____um of choice
n. a confusing and difficult problem or question
183. co_____e electricity
v. to spend something, especially fuel, energy, or time, in a large amount
184. co_____ct a 3D image
v. to build or create something; to assemble or combine different parts to form something whole
185. rel_____ss attack
adj. persistent and determined; continuing despite difficulties or setbacks
186. stop drinking al_____l
n. a clear liquid that can make people drunk and is used in medicines, cleaning products, etc.
187. a beautiful st_____e
n. a sculpture of a person or animal, typically made of stone or metal, that is intended to represent the subject in a lifelike or symbolic way
188. to a rec_____ble degree
adj. easy to become aware of or identify
189. nuclear ph_____s
n. the science of matter and energy and their interactions
190. electronic de_____e
n. a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic

ANSWERS: 180. translate, 181. particle, 182. conundrum, 183. consume, 184. construct, 185. relentless, 186. alcohol, 187. statue, 188. recognizable, 189. physics, 190. device

191. things at the na_____le *adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
192. as_____le your colleagues *v.* to collect in one place as a single group
193. co_____e an average score *v.* to make a mathematical calculation
194. ab____d storyline *adj.* ridiculously silly, unreasonable, or illogical
195. face rel_____ss pressure *adj.* persistent and determined; continuing despite difficulties or setbacks
196. metallic na_____be *n.* a tube-shaped structure that is composed of very small particles, typically with a diameter of a few nanometers; nanotubes are used in a variety of applications, including electronics and materials science
197. te_____te file *n.* a pre-designed file or document used as a starting point for a particular application so that the format does not have to be created from scratch
198. have ho____w legs *adj.* having a hole, empty space inside, or indentation on the surface
199. pay out_____ng debts *adj.* superior to others in excellence; not yet paid, completed, etc.
200. ext_____ary weather *adj.* exceptional, unexpected, very unusual; surpassing the ordinary or usual
201. so__d ally *adj.* hard or firm; characterized by good substantial quality
202. com_____ty theory *n.* the state or quality of being complicated or intricate and difficult to understand

ANSWERS: 191. nanoscale, 192. assemble, 193. compute, 194. absurd, 195. relentless, 196. nanotube, 197. template, 198. hollow, 199. outstanding, 200. extraordinary, 201. solid, 202. complexity

203. as_____le a jigsaw puzzle *v.* to collect in one place as a single group
204. el_____or ride *n.* a mechanical device used for vertical transportation, typically in multi-story buildings, consisting of a compartmentalized platform that moves between floors
205. medical l_b *n.* a workplace for the conduct of scientific research; a laboratory
206. completely fas_____ng to me *adj.* extremely interesting
207. im_____e a process *v.* to make or become better
208. em_____r my life *v.* to give someone the power or authority to do something
209. resident al__ns *n.* a person who comes from a different country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere
210. become ess_____ly same *adv.* relating to the essential features or concepts of anything
211. swear un_____g devotion to her *adj.* (especially of feelings or beliefs) lasting forever
212. gr_____te degree program *n.* a person who has a first degree from university or college; (verb) to complete the first course of university or college and get a degree
213. bl_____g fire *adj.* burning and emitting intense heat and light; powerful and impressive
214. ext_____ary ability *adj.* exceptional, unexpected, very unusual; surpassing the ordinary or usual

ANSWERS: 203. assemble, 204. elevator, 205. lab, 206. fascinating, 207. improve, 208. empower, 209. alien, 210. essentially, 211. undying, 212. graduate, 213. blazing, 214. extraordinary

215. laws of qu____m mechanics *n.* the smallest amount or unit of something, especially (electromagnetic) energy
216. me_____cs equation *n.* the branch of physics that deals with the study of motion, forces, and energy; (mechanic) someone whose occupation is repairing and maintaining automobiles
217. honor gr____te *n.* a person who has a first degree from university or college; (verb) to complete the first course of university or college and get a degree
218. end of the first ep____e *n.* a happening or story that is distinctive in a series of related events; an abrupt short period during which someone suffers from the effects of a physical or mental illness
219. de____p a skill *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
220. an or____ry school *adj.* not different, exceptional, or unexpected in any way, especially in quality, ability, size, or degree
221. co____r degree *v.* to have a meeting or discussion to come to a decision or agreement or exchange ideas; to bestow something
222. traditional me_____al *adj.* of or relating to the treatment or cure of disease

ANSWERS: 215. quantum, 216. mechanics, 217. graduate, 218. episode, 219. develop, 220. ordinary, 221. confer, 222. medicinal

223. h__k into the program *v.* to hit and cut somebody or something roughly and violently; to find a bug in a computer program and break into their systems or networks
224. tr_____te a document into English *v.* to convert or change words into another language
225. estimate pr_____e costs *adj.* sharply exact or accurate or delimited
226. st__r a steady course *v.* to control the direction or movement of a vehicle; to direct a course of action; to guide or motivate someone
227. me_____al chemistry *adj.* of or relating to the treatment or cure of disease
228. rec_____ble landmark *adj.* easy to become aware of or identify

ANSWERS: 223. hack, 224. translate, 225. precise, 226. steer, 227. medicinal, 228. recognizable

Session 3: Fill in the Blanks

1. The company has made great strides in its _____ toward sustainability.
n. the act or process of changing to the next stage or phase or moving forward

2. I need to _____ plans with him for the celebration.
v. to plan, prepare for, and carry out something

3. The _____ of water is called ice.
adj. hard or firm; characterized by good substantial quality

4. The content is _____ and informative for me.
adj. sharply exact or accurate or delimited

5. It would be best if you _____ out all those old magazines.
v. to throw something carelessly with a light motion

6. When making arrests, police officers frequently _____ excessive force.
v. to give somebody a job and pay them for it; to make use of

7. 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

8. We want to _____ ties between our two countries.
v. to make or become better

ANSWERS: 1. progression, 2. arrange, 3. solid-state, 4. precise, 5. tossed, 6. employ, 7. economy, 8. improve

9. The company _____ employees to buy low-price items without approval to achieve efficient purchasing.
- v.* to give someone the power or authority to do something
10. The hotel's _____ was out of order, so we had to take the stairs to our room on the fifth floor.
- n.* a mechanical device used for vertical transportation, typically in multi-story buildings, consisting of a compartmentalized platform that moves between floors
11. The regulations _____ medical malpractice claims are rigorous.
- v.* to legally control and direct a country, city, group of people, etc. and be responsible for introducing new laws, organizing and maintaining public services
12. The _____ properties of this herb have been known to help with various ailments.
- adj.* of or relating to the treatment or cure of disease
13. He _____ hypotheses that no mathematician has ever imagined before.
- v.* to build or create something; to assemble or combine different parts to form something whole
14. Solar gravity creates _____ pressures and temperatures.
- adj.* very great in amount or degree
15. He was awfully _____ by the news.
- adj.* causing or marked by anxiety, uneasiness, trouble, or grief; (verb) to make someone anxious, unhappy, or angry

ANSWERS: 9. empowered, 10. elevator, 11. governing, 12. medicinal, 13. constructs, 14. extreme, 15. upset

16. We can use this campaign as a bargaining _____ in the negotiations.
n. a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat
17. The production of _____ fuels requires massive volumes of fresh water.
adj. capable of being renewed, extended, or replaced
18. The _____ sun beat down on the desert.
adj. burning and emitting intense heat and light; powerful and impressive
19. An intelligent battery has a voltage monitoring _____.
n. (in electrical engineering) an electrical device that provides a path for electrical current to flow; a journey or route around a particular place or area
20. Big techs are now eager to develop _____ computers.
n. the smallest amount or unit of something, especially (electromagnetic) energy
21. I tried to _____ the efficiency of the investment.
v. to make a mathematical calculation
22. Management must take _____ responsibility for the accident.
adj. furthest or highest in degree or order
23. Companies developing self-driving cars consistently _____ the emerging technologies.
v. to introduce new methods, ideas, or products
24. The president began to _____ an army.
v. to collect in one place as a single group

ANSWERS: 16. chip, 17. renewable, 18. blazing, 19. circuit, 20. quantum, 21. compute, 22. ultimate, 23. innovate, 24. assemble

25. His car was easily _____ in the parking lot.

adj. easy to become aware of or identify

26. The tree had a _____ trunk, which made it easy for animals to take shelter inside.

adj. having a hole, empty space inside, or indentation on the surface

27. We must _____ a new system to streamline our workflow and increase efficiency.

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

28. The construction project has been delayed _____ due to the pandemic.

adv. without any fixed or definite limit; for an unknown or unspecified period of time

29. The captain told him to _____ the ship north.

v. to control the direction or movement of a vehicle; to direct a course of action; to guide or motivate someone

30. The _____ sword could be used for both offense and defense.

adj. having two sharp edges or sides, especially one that can harm or benefit in equal measure; (of sword or blade) having two cutting edges

31. He is familiar with _____ and biology.

n. the branch of the natural sciences dealing with the composition of substances and their properties and reactions

32. The earthquake resulted in significant _____ destruction.

adj. associated with the way on construction or organization of anything

ANSWERS: 25. recognizable, 26. hollow, 27. develop, 28. indefinitely, 29. steer, 30. double-edged, 31. chemistry, 32. structural

33. Competition between countries resulted in fast technological _____.
n. the development, improvement, or progress of something
34. The problem seemed _____ initially, but it became a significant issue.
adj. of little value or importance
35. I want to put that _____ of my life behind me.
n. a happening or story that is distinctive in a series of related events; an abrupt short period during which someone suffers from the effects of a physical or mental illness
36. I heard the _____ of conversation from the next room.
v. to make a continuous, low humming sound such as the one bee makes; an exciting and active atmosphere
37. The body needs a certain amount of _____ to build and repair tissues.
n. a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues
38. The shape of the DNA _____ is a double helix.
n. a group of two or more atoms held together by attractive forces known as chemical bonds
39. The _____ train was packed with commuters during rush hour.
n. a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape
40. The government should view children as national assets and actively _____ in them.
v. to put money, effort, time, etc. into something to make a profit or achieve a result

ANSWERS: 33. advancement, 34. trivial, 35. episode, 36. buzz, 37. protein, 38. molecule, 39. tube, 40. invest

41. The archaeologist used a small _____ to excavate the ancient artifact.
n. a tool with a sharpened edge at one end used for shaping wood, stone, or metal; (verb) to engage in deceitful behavior
42. The similarities between the two cultures suggest _____ evolution.
adj. tending to come together or meet at a point; merging or intersecting; characterized by similarities or commonalities, particularly in different fields or areas of knowledge
43. There is a clear association between _____ consumption and cognitive decline.
n. a clear liquid that can make people drunk and is used in medicines, cleaning products, etc.
44. The economy is growing at a supercharged _____.
n. the speed at which someone or something moves, or the rate at which something happens or changes
45. Carbon _____ are used in various fields of science and technology due to their unique properties.
n. a tube-shaped structure that is composed of very small particles, typically with a diameter of a few nanometers; nanotubes are used in a variety of applications, including electronics and materials science
46. We _____ the topic because it was too complicated.
v. to move along lightly and quickly, making a step from one foot to the other with a hop or bounce; to intentionally fail to do something which would normally do
47. The wallpaper had a pattern of pink _____ on a white surface.
n. a very small circular mark, especially one that is printed

ANSWERS: 41. chisel, 42. convergent, 43. alcohol, 44. pace, 45. nanotubes, 46. skipped, 47. dots

48. We immediately rejected his _____ suggestion.
adj. ridiculously silly, unreasonable, or illogical
49. She couldn't _____ whether to order the pizza or the pasta for dinner.
v. to make up someone's mind about something; to come to a conclusion or judgment after considering options
50. The carpenter applied _____ to the cabinet joints before nailing them together.
n. a sticky substance used for joining things together; a bonding agent made from animal or synthetic materials
51. He _____ pieces of rope out of straw.
v. to bend or turn something into a certain shape
52. The Prime Minister will pay a courtesy visit to the Nobel laureate's _____.
n. a workplace for the conduct of scientific research; a laboratory
53. She _____ the files into a single ZIP archive to save space on her computer.
v. to press or squeeze together to make something take up less space
54. This blog offers a variety of tips for _____ everyday life.
v. to hit and cut somebody or something roughly and violently; to find a bug in a computer program and break into their systems or networks
55. The athlete's _____ training paid off in the end.
adj. persistent and determined; continuing despite difficulties or setbacks
56. _____ the text from Italian into English.
v. to convert or change words into another language

ANSWERS: 48. absurd, 49. decide, 50. glue, 51. twisted, 52. lab, 53. compressed, 54. hacking, 55. relentless, 56. Translate

57. His _____ jokes made her angry.

adj. being in an unrefined or natural state; (noun) the unprocessed form of oil

58. The corporation _____ dominated the entire tobacco business.

adv. finally, particularly after a long time or a lot of struggle, complications, and so on

59. 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

60. The train came to a _____ at the station.

v. to bring or come to a stop; to force to stop moving or operating

61. She kept _____ for an ambulance.

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

62. After the party, they had to clean up _____ of dirty dishes.

n. a collection of objects positioned one on top of another; a large sum of something, such as money

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

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

64. The wealthy businessman acted as a _____ to his protege, helping him to succeed in his career.

n. a male godparent who witnesses a child's baptism and accepts a spiritual responsibility for their upbringing; a trusted mentor or advisor who has significant influence and offers support and guidance in personal or professional matters

ANSWERS: 57. crude, 58. eventually, 59. structure, 60. halt, 61. screaming, 62. piles, 63. device, 64. godfather

65. She wore an _____ evening gown to the gala.
adj. pleasing and graceful in appearance or manner, or showing good taste and refinement
66. Many employers hire _____ trainees to train as managers.
n. a person who has a first degree from university or college; (verb) to complete the first course of university or college and get a degree
67. The strict deadlines will _____ the team to work efficiently.
v. to force or require someone to do something; to exert a strong, irresistible force or pressure that makes someone act in a certain way
68. _____ a society is an organism.
adv. relating to the essential features or concepts of anything
69. He felt _____ when his best friend revealed their secret to the enemy.
v. to reveal or deliver to an enemy by treachery or disloyalty; to reveal something unintentionally
70. _____ species have drastically altered the ecosystem in this area.
n. a person who comes from a different country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere
71. For some creatures, carbon _____ are deadly.
n. a particle of matter that is between 1 and 100 nanometres (nm) in diameter
72. I am considering what I should do to _____ him.
v. to persuade someone or make someone believe that something is true

ANSWERS: 65. elegant, 66. graduate, 67. compel, 68. Essentially, 69. betrayed, 70. Alien, 71. nanoparticles, 72. convince

73. 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
74. His grandfather was an ____ man.
adj. strange or unexpected; not divisible by two
75. We would _____ an early reply.
v. to value and acknowledge the worth of someone or something; to be grateful for something or someone
76. This process improves the strength of the metal by controlling the _____ lattice structure of the metal.
adj. on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
77. The leaders of the two countries met to _____ on the issue.
v. to have a meeting or discussion to come to a decision or agreement or exchange ideas; to bestow something
78. Internet traffic volumes have increased significantly with the advent of _____.
n. a mobile phone that functions as a computer and connects to the Internet
79. The museum houses a _____ collection of Celtic artifacts.
adj. extremely interesting
80. The budget reduction was an _____ feat for our nation.
adj. arousing admiration due to size, quality, or skill

ANSWERS: 73. complexity, 74. odd, 75. appreciate, 76. nanoscale, 77. confer, 78. smartphones, 79. fascinating, 80. impressive

81. Her response revealed _____ idiocy.

adj. unbelievable; enormous

82. 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

83. Since the 1990s, the Internet has continued to experience _____ growth.

adj. becoming more and more rapid; of or involving mathematical exponents

84. It's an area of _____ natural beauty.

adj. superior to others in excellence; not yet paid, completed, etc.

85. The _____ session of the Diet opened.

adj. not different, exceptional, or unexpected in any way, especially in quality, ability, size, or degree

86. The _____ party strongly disagreed with the government's proposed legislation.

n. the act of disagreeing or resisting; the state of strong disagreement

87. The doctor diagnosed him with a rare _____ that had no known cure.

n. a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems

88. Trees absorb _____ dioxide and give off oxygen.

n. a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals

ANSWERS: 81. incredible, 82. diversity, 83. exponential, 84. outstanding, 85. ordinary, 86. opposition, 87. disease, 88. carbon

89. The translation ____ helped me translate a website from another country.
n. a computer program or software application that is capable of performing automated tasks, often on the internet; a type of electronic device that provides autonomous service or assistance to users
90. The new amusement park ride was _____ with twists, turns, and drops that left riders screaming with excitement.
adj. extremely good; excellent
91. The _____ of the upcoming concert was palpable among the crowd.
n. a feeling of great enthusiasm and eagerness
92. The famous _____ used various tools to carve the marble into the desired shape.
n. an artist who creates sculptures, three-dimensional objects, or forms
93. A technique called deep learning has led to _____ in AI.
n. a sudden, dramatic, and important discovery or development that helps to improve a situation or provide an answer to a problem
94. I spotted a majestic ____ with large antlers standing at the forest's edge.
n. a male deer; a unit of currency, especially the US dollar; a sudden jolt or movement; a young man; (verb) to resist or oppose something, such as an authority, trend, or convention
95. He studied _____ in college and now works as an engineer.
n. the branch of physics that deals with the study of motion, forces, and energy; (mechanic) someone whose occupation is repairing and maintaining automobiles

ANSWERS: 89. bot, 90. fantastic, 91. excitement, 92. sculptor, 93. breakthroughs, 94. buck, 95. mechanics

96. The _____ format provided a useful guide for creating the budget.
- n.* a pre-designed file or document used as a starting point for a particular application so that the format does not have to be created from scratch
97. He should _____ more with his colleagues.
- v.* to communicate or react with somebody
98. The outermost _____ shell determines the chemical properties of an atom.
- n.* a tiny particle with the negative electrical charge
99. The outermost electron shell of an _____ determines its chemical characteristics.
- n.* the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus
100. The findings of the experiment were both _____ and unexpected.
- adj.* causing a lot of interest or excitement
101. A smaller car will _____ less fuel.
- v.* to spend something, especially fuel, energy, or time, in a large amount
102. We can calculate the position of the _____ statistically.
- n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance
103. 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
104. The city is known for its impressive _____ and beautiful old buildings.
- n.* the art and science of designing and constructing buildings

ANSWERS: 96. template, 97. interact, 98. electron, 99. atom, 100. exciting, 101. consume, 102. particles, 103. discovery, 104. architecture

105. He pledged his _____ love for his wife.

adj. (especially of feelings or beliefs) lasting forever

106. Common salt is a sodium and chlorine _____.

n. an item composed of two or more distinct elements combined; a chemical formed by the combination of two or more elements

107. He studied the _____ of radiation.

n. the science of matter and energy and their interactions

108. The _____ on the beach was warm and golden.

n. finely granulated particles of rock or mineral material typically found along beaches, deserts, or riverbeds; used in construction, landscaping, and other applications requiring drainage or abrasive action

109. She _____ the flowers off the bush.

v. to pull or draw something, especially with sudden force or effort; to strip of feathers

110. The _____ of the famous hero stood proudly in the town square.

n. a sculpture of a person or animal, typically made of stone or metal, that is intended to represent the subject in a lifelike or symbolic way

111. 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

112. He narrated the _____ story of his adventure.

adj. exceptional, unexpected, very unusual; surpassing the ordinary or usual

ANSWERS: 105. undying, 106. compound, 107. physics, 108. sand, 109. plucked, 110. statue, 111. toolkit, 112. extraordinary

113. The group faced a _____ when they couldn't decide whether to go hiking or to the beach.

n. a confusing and difficult problem or question

114. The country experienced a _____ increase in population.

adj. happening slowly over a long period of time or distance; not steep or abrupt

ANSWERS: 113. conundrum, 114. gradual