Englist.me

Vocabulary Builder Reference from...

Ed Boyden: A new way to study the brain's invisible

secrets | TED Talk

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

_study_the_brain_s_invisible_secrets



All Words

IMPORTANT

This material is a commentary and does not contain any copyrighted material of the reference source. We strongly recommend accessing/buying the reference source at the same time.

Session 1: Word List

diaper

 a soft, absorbent piece of material worn by babies and young children around their waist and between their legs to catch urine and feces

synonym: napkin, nappy

(1) diaper bag, (2) cloth diaper

I need to buy a pack of **diapers** for my baby before we run out.

swell

v. to become larger or more inflated; to become more intense or important

synonym: expand, increase, inflate

(1) **swell** at room temperature, (2) **swell** a population His arm was **swelling** from the insect bite.

enormous

adj. extremely large or great synonym: huge, giant, gigantic

(1) enormous amount, (2) enormous potential

Shakespeare's output of poetry was **enormous**.

experiment

 the scientific test conducted to observe what happens and gain new knowledge

synonym: experimentation, investigation

(1) experiment design, (2) series of experiments

His **experiments** showed highly positive results.

volume

 the amount of space occupied by an object or substance; the magnitude of sound

synonym: capacity, amount, intensity

(1) volume of work, (2) high volume

This container has a **volume** of 10 cubic meters.

industrial

adj. of or relating to or resulting from industry synonym: manufacturing, mechanical

(1) beginning of the **industrial** revolution, (2) **industrial** alcohol

Industrial design has become more focused on human nature aspect than ever before.

polymer

- a substance composed of macromolecules (= large groups of atoms) made from many smaller and simpler molecules
- (1) **polymer** fiber, (2) biological **polymer**We are developing plant-derived **polymers** to reduce environmental impact.

brain

- n. the organ inside the head that is responsible for one's movement, thought, memory, and feeling
- synonym: intellect, mind, encephalon
- (1) basic **brain** function, (2) permanent **brain** damage X-rays revealed a small tumor in his **brain**.

peer

- n. a person who has the same age, status, or abilitysynonym: fellow, associate, counterpart
- (1) **peer** group, (2) **peer** review

Among young people, **peer** pressure can be pretty influential.

biomolecule

n. a molecule produced by a living organism, typically composed of carbon, hydrogen, oxygen, nitrogen, and other elements, plays a vital role in various biological processes such as metabolism, energy production, and

genetic information transfer

synonym: biochemical, molecule, protein

(1) **biomolecule** structure, (2) protein **biomolecule**DNA is a complex **biomolecule** that contains the genetic information of an organism.

dimension

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

synonym: extent, measurement, size

(1) new **dimension**, (2) the crosswise **dimension**Overall **dimensions** are approximately 400x200mm.

structure

 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.

yield

the total output of crops, profits, etc. that are produced;
 (verb) to produce or supply helpful something, such as a profit, an amount of food, or information

synonym: proceeds, harvest, output

(1) corn **yield**, (2) the **yield** on the bond The company's stock gives a high **yield**.

emotion

 a strong feeling such as love, anger, etc. deriving from one's situation, mood, or relationships with others

synonym: feeling, sentiment, passion

(1) control my **emotion**, (2) afraid to show **emotion**Some **emotions** are common across cultures and backgrounds.

pinpoint

v. to locate or identify the exact position in space or time of something

synonym: name, direct, identify

(1) **pinpoint** the problem, (2) **pinpoint** signs of manipulation This radar quickly **pinpoints** the position of the enemy.

disease

 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.

Alzheimer

 a neurodegenerative disease that causes memory loss, cognitive decline, and behavioral issues; is the most common cause of dementia in older adults

synonym: dementia, memory loss, cognitive decline

(1) **Alzheimer's** brain, (2) **Alzheimer's** risk factors My grandmother has **Alzheimer's** disease requires special care and attention from her caregivers.

epilepsy

 a neurological disorder characterized by recurrent seizures or convulsions, which can manifest in a variety of ways and be caused by various factors

synonym: seizures, convulsions, fits

(1) **epilepsy** seizure, (2) **epilepsy** medication

The flashing lights at the concert triggered her **epilepsy** and caused a seizure.

origin

- n. the first existence or beginning of somethingsynonym: root, source, ancestor
- (1) **origin** of information, (2) racial **origin**There are various hypotheses concerning the **origin** of life.

neuroscience

 the scientific study of the function, structure, and disorder of the brain and the nervous system (1) the branch of **neuroscience**, (2) a theoretical concept in **neuroscience**

Our university is famous for its professors, who are well-versed in behavioral **neuroscience**.

invention

 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**.

incredibly

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

synonym: enormously, exceptionally, extraordinarily

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

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

complicated

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

synonym: complex, convoluted, intricate

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

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

neuron

n. a cell that is specialized to carry information within the brain and between the brain and other parts of the body

synonym: nerve cell

(1) excite the neurons, (2) neuron cell body

Our body transfers information along each **neuron** using an electrical impulse.

complexity

 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.

geometry

- the area of pure mathematics that deals with the points, lines, curves, and surfaces
- (1) Euclidean **geometry**, (2) spherical **geometry**. The mathematician pioneered fractal **geometry**.

electrical

- adj. relating to electricity
- (1) an **electrical** storm, (2) degree in **electrical** engineering Actuators convert **electrical** pulses into motion.

junction

 a point where two or more things meet or come together, particularly roads, railways, or rivers; a place or time of joining or combining

synonym: intersection, convergence, connection

(1) junction box, (2) junction point

The **junction** between these two roads is a common site of traffic accidents.

synapse

- the fact or state of failing to finish an activity and of stopping using, making, or doing it
- (1) synapse circuit, (2) end at a synapseAnimals transmit nerve impulses through synapses.

exchange

v. to give something and receive something else in return, often with the implication that the items being traded are of equal or comparable value; (noun) the act of giving or taking something in return for something else; a place or system where goods or services can be bought, sold, or traded

synonym: trade, swap, interchange

(1) **exchange** rate, (2) **exchange** a few friendly words My sister and I frequently **exchange** books, as we love reading.

chemical

adj. relating to or connected with chemistry;

synonym: chemic, synthetic

(1) toxic chemicals, (2) a chemical compound

The firm has grown into a large **chemical** manufacturing.

density

n. the quality of compactness of a substance

synonym: tightness, viscosity

(1) population **density**, (2) higher pixel **density**

Do you know the **density** of the population in Hong Kong?

incredible

adj. unbelievable; enormous

synonym: unbelievable, fantastical, inconceivable

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

Her response revealed incredible idiocy.

cubic

adj. having the shape of a cube or being of three dimensions; measured in units that are the third power of a linear unit

synonym: three-dimensional, boxlike, cubical

(1) cubic meter, (2) cubic structure

The package was a **cubic** shape, which made it easier to stack on the shelf.

zoom

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

synonym: move quickly, dive, buzz

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

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

rendition

n. a performance or interpretation, often of a piece of music or artwork; a version or translation of something into another language or style; the act of surrendering someone to another country for interrogation or punishment

synonym: interpretation, performance, presentation

(1) **rendition** of judgment, (2) film **rendition**

The singer gave a beautiful **rendition** of the classic song

during the concert.

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.

mediate

- v. to try to bring about an agreement or understanding between people who are in conflict
- synonym: arbitrate, reconcile, intervene
- (1) **mediate** allergic reaction, (2) **mediate** a negotiation The teacher had to **mediate** a disagreement between two students over a stolen pencil.

pulse

- n. the regular heartbeat as it sends blood around the body, especially when it is felt at the wrist or side of the neck; a solid regular vibration of sound, electric current, light, or other waves
- synonym: beat, vibration, throb
- (1) a weak **pulse**, (2) **pulse** waves

The cardiac monitor displays the intensity of your **pulse**.

molecule

- 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.

conduct

- v. to organize and carry out a particular activitysynonym: behave, lead, carry on
- (1) **conduct** a background check, (2) **conduct** research Police will **conduct** random breath testing for drunk driving.

decision

 the act or process of making up someone's mind about something; a choice or judgment reached after considering options synonym: choice, determination, judgment

(1) **decision** authority, (2) a selfish **decision**

She was struggling to make a **decision** between two job offers.

molecular

 adj. of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds)

synonym: microscopic, atomic

(1) **molecular** structure, (2) **molecular** biology **Molecular** weight is the sum of all the atoms.

disorder

 an untidy state or a lack of organization; a physical condition or illness that causes problems with how a section of the body or brain functions

synonym: chaos, disturbance, disease

 the files are in complete disorder, (2) people with bipolar disorder

The doctor prescribed some medicine for the mental **disorder**.

computation

- n. the act or process of calculating something, especially an answer or amount, by using a machine or calculator synonym: calculation, estimation, arithmetic
- (1) parallel **computation**, (2) theory of **computation**The researcher demonstrated the superiority of quantum **computation** in several mathematical tasks.

afflict

 to cause pain, suffering, or distress to someone or something

synonym: trouble, distress, bother

(1) **afflict** with the plague, (2) **afflict** the economy The disease can **afflict** both humans and animals.

patient

 a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or

characteristic

synonym: client, recipient, subject

(1) **patient** in the hospital, (2) **patient** with weight loss. The doctor carefully examined the **patient's** medical history.

suffer

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

synonym: endure, undergo, tolerate

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

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

confront

 to face, meet or deal with a problem or difficult situation or person

synonym: engage, encounter, contend

- (1) **confront** a global warming, (2) **confront** the issue He finally decided to **confront** problems directly.
- v. to examine something hastily, with the eyes or with a machine, to get information

synonym: look over, scrutinize, browse

(1) **scan** the face of the man, (2) **scan** a document into PDF She stood on the podium and **scanned** an audience.

invasive

scan

 adj. spreading very quickly, and often aggressively, and difficult to stop

synonym: aggressive, rampant, spreading

(1) **invasive** breast cancer, (2) **invasive** species

The **invasive** disease can spread quickly and potentially cause a global pandemic.

spatial

adj. of or relating space and the position, area, and size of things

synonym: dimensional, geographical

(1) spatial ability, (2) spatial distribution

He carefully determined the **spatial** relations of every piece

onotiol

of the stage set.

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.

blob

a small amount or drop of a thick liquid or sticky substance

synonym: chunk, lump, hunk

(1) a big **blob** of yellow, (2) a **blob** of jelly

A **blob** of ink fell on the floor.

voxel

a 3D pixel (= a small but volumetric unit) in a three-dimensional space defined by x-, y-, and zcoordinates; a digital image element representing a tiny cube in a 3D picture, with its color and brightness determined by the values assigned to the voxels in its vicinity

synonym: 3d pixel, volumetric pixel

(1) voxel engine, (2) 3D voxel model

Doctors used **voxel-based** imaging to create a 3D model of the patient's brain.

resolution

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

synonym: determination, decision, settlement

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

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

contribute

v. to give something, especially money or goods, to provide or achieve something together with other people

synonym: donate, devote, commit

- (1) **contribute** a large sum of money to the fund,
- (2) contribute to society

Government workers cannot **contribute** to political campaigns.

conscious

adj. being aware of and able to respond to what is happening around you

synonym: aware, cognizant, deliberate

(1) **conscious** effort, (2) **conscious** of having succeeded He became **conscious** that he was being followed.

extreme

adj. very great in amount or degreesynonym: farthermost, outermost, fierce

extreme sports, (2) extreme weather events
 Solar gravity creates extreme pressures and temperatures.

microscope

 an instrument used to see objects or substances that are too small to be seen with the naked eye

synonym: lens, magnifier, eyepiece

microscope slide, (2) electron microscope
 used an optical microscope to observe the small organisms in the water sample.

bacteria

n. single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease

synonym: microorganism, microbe

(1) pathogenic **bacteria**, (2) harmless **bacteria Bacteria** prevalent in hospitals are often resistant to antibiotics.

discovery

 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.

fundamental

adj. forming an essential base or core from which everything else develops or is affected

synonym: basic, essential, entire

(1) **fundamental** education, (2) **fundamental** rights Human behavior has **fundamental** characteristics.

individual

- n. a single person or thing, as distinct from a group synonym: person, being, self
- (1) a private **individual**, (2) **individual** freedom
 As an **individual**, he had the right to make his own decisions and live his life as he saw fit.

opposition

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.

darn

v. to mend a piece of clothing by sewing over a hole or tear with small, tight stitches

synonym: mend, repair, patch

(1) darn stockings, (2) darn hole

I have to darn these socks before they become unwearable.

initially

adv. at the beginning; at first

synonym: originally, primarily, firstly

(1) **initially** anticipated, (2) diagnosed **initially** as a tumor This train departed later than **initially** scheduled.

grad

 n. (informal for graduate) a student who has recently graduated or is about to graduate from a school, college, or university

synonym:

graduate, alumnus, alumni

(1) high school grad,(2) grad studentHe was proud to be a grad of the prestigious university.

process

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

synonym: procedure, method, system

(1) **process** improvement, (2) decision-making **process** The **process** for applying for a visa can be lengthy and complicated.

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.

install

v. to fix furniture, a machine, or a piece of equipment into position so that it can be used; put into an office or a position

synonym: establish, inaugurate, lodge

(1) **install** a door, (2) **install** a chairperson

The new president was **installed** immediately after the national election.

physically

- adv. in a way related to a person's body or appearance rather than their mind
- (1) **physically** and mentally, (2) stay **physically** fit Having a **physically** healthy physique is essential for a great life.

distinguish

to notice or understand the difference between two people or things

synonym: determine, differentiate, characterize

(1) **distinguish** these two things, (2) **distinguish** man from the other animals

This study **distinguished** four different ways to run a business.

dramatic

adj. very sudden, very excellent, or full of action and excitement

synonym: striking, theatrical, breathtaking

(1) make **dramatic** changes, (2) a **dramatic** rescue at sea The statement had a **dramatic** impact on house prices.

demonstrate

v. to display something or give an exhibition to an interested audience

synonym: show, illustrate, display

(1) **demonstrate** a difference, (2) **demonstrate** mastery How can you **demonstrate** that the earth is a sphere?

extract

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

synonym: excerpt, quote, distillation

(1) a brief **extract** from the book, (2) botanical **extract** Anesthetize the gum before **extracting** the teeth.

grain

- wheat or any other small hard seeds used as a food; a relatively small granular particle of a substance
 synonym: seed, piece, cereal
- a grain of sand, (2) flour made from grain
 Ordinary air purifiers cannot adequately remove pollen grains.

teaspoon

- a small spoon used to stir or measure out small amounts of some ingredients, typically sugar, salt, or spices, in cooking or serving
- (1) teaspoon measurement, (2) lick a teaspoon

Page 15 / 81

You only need a teaspoon of salt to enhance the soup's
flavor.

hundredfold

adj. a hundred times as great or as much

(1) rise nearly **hundredfold**, (2) improve **hundredfold**The development team reported two **hundredfold** increases in performance.

chemistry

- 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.

chain

- a series of connected links or objects; a system or group of interconnected elements; a restraint or shackle
 synonym: series, string, link
- chain reaction, (2) supply chain
 The chain on my bike broke, leaving me stranded.

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.

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.

dense

adj. containing a large number of people or something with little space between them

synonym: heavy, thick, idiotic

(1) nutrient- **dense** foods, (2) **dense** forests

The entire mountain is covered in **dense** rainforest.

separate

- v. to force, take, or pull apart; mark as different synonym: disunite, isolate, ramify
- (1) **separate** video into chapter, (2) **separate** cream from milk

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

distance

n. the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance

synonym: space, gap, span

(1) driving distance, (2) social distance

The marathon runner covered a long **distance** in a short amount of time.

absorb

- v. to take in a fluid or other substance gradually synonym: consume, soak, ingest
- (1) **absorb** energy, (2) **absorb** a shock The sponge **absorbs** water well.

mystery

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

synonym: enigma, puzzle, secret

(1) mystery novel, (2) unsolved mystery

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

animation

n. the technique of photographing successive drawings or positions of puppets or models to create an illusion of movement when the film is shown as a sequence; enthusiasm and energy in the way you look or behave synonym: motion, movement, liveliness

(1) **animation** studio, (2) **animation** film

The **animation** of the characters in the movie was so realistic, and it was as if they were there.

render

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

synonym: deliver, give, provide

- (1) **render** an assessment, (2) **render** the contract void The jury must **render** a decision on this complex case.
- v. to fasten, join, or connect one thing to another synonym: fix, fasten, bind
- (1) **attach** firmly, (2) **attach** a file to an e-mail He does not **attach** importance to these rumors.
- a device, typically made of metal, that is used to moor a ship or boat in a particular place, typically by being dropped to the seabed; a central cohesive source of support and stability

synonym: mainstay, ballast, backbone

- (1) **anchor** bolt, (2) **anchor** weight The ship dropped **anchor** in the bay.
- v. to deal with a situation, problem, or strong emotion synonym: control, manage, deal with
- (1) **handle** a precious object, (2) **handled** the incident We all should learn how to **handle** stress.
- to tie or fasten someone or something tightly with rope, string, etc. so that they cannot move or are held together strongly

synonym: tie, stick to, adhere

(1) **bind** the man's hands, (2) **bind** old letters into a bundle The company's rules **bind** the employee's working hours.

attach

anchor

handle

bind

exert

- v. to put forth effort; to put into action; to bring into play synonym: exert, apply, use
- (1) exert control, (2) exert influenceHe exerted himself to lift the heavyweight.

dump

v. to deposit or dispose of something, such as trash, waste, etc., carelessly or hurriedly

synonym: throw away, dispose

(1) **dump** the gravel on the road, (2) **dump** hazardous waste

The company **dumped** him after several years of service.

obvious

- adj. easy to see, discover or understand synonym: apparent, conspicuous, evident
- (1) **obvious** reasons, (2) his conclusion was **obvious** There are **obvious** differences between the two wine-producing regions.

monomer

 a molecule capable of bonding chemically with other molecules to form a polymer, which is the basic building block of larger molecular structures

synonym: building block, molecule, polymer unit

(1) acrylamide **monomer**, (2) vinyl **monomer**The **monomer** units are joined together to form a polymer chain.

trigger

- v. to make something happen suddenly; to cause something such as a device, machine, etc. to functionsynonym: activate, spark, drive
- (1) **trigger** a biochemical response, (2) **trigger** inflation The incident **triggered** a political controversy.

reaction

a response that reveals a person's feelings or attitude;
 (in chemistry) a process in which one or more substances are changed into others

synonym: response, reply, answer

(1) chemical reaction, (2) trigger a reaction

There was a chemical **reaction** of the lime with the groundwater.

tissue

 an ensemble of similar cells of the animal or plant that together carry out a specific function

synonym: structure, texture, anatomy

(1) a facial tissue, (2) loss of muscle tissue

The researcher separated the nervous **tissue** for microscopic examinations.

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.

specimen

an individual example or sample of something, typically used to represent a larger group or category

synonym: example, sample, model

(1) specimen collection, (2) botanical specimen

The biology teacher showed the students a frog **specimen** so they could examine its anatomy.

loosen

v. to make something less tight, firm, or fixed; to free from restraint or constraint; to relax

synonym: relax, slacken, untie

(1) **loosen** grip, (2) **loosen** knot

Please **loosen** the screws on the back panel so we can access the inside of the machine.

balloon

 a small bag made of thin rubber or other light material that can be inflated with air or gas, used as a toy or as a decoration; (verb) to become inflated

synonym: aerostat, blimp, (verb) billow out

(1) **balloon** ride, (2) **balloon** into a severe political problem

The satellite **balloon** slowly ascended into the sky.

particle

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.

visible

adj. capable of being seen; or open to easy view synonym: clear, observable, seeable

(1) visible stars, (2) visible by X-rayMy home is easily visible from the shore.

glowing

adj. highly enthusiastic; greatly praised

synonym: burning, bright, flaming

(1) glowing reviews, (2) glowing cheeks

The western sky was **glowing** pink.

dye

 to color a textile or hair by immersing it in a colored liquid or substance

synonym: color, tint, stain

(1) **dye** a T-shirt red, (2) **dye** patterns She **dyed** her hair purple for a change.

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.

obscure

adj. not well known to many peoplesynonym: esoteric, vague, unrecognized

(1) obscure answer, (2) obscure artist

This information was primarily **obscured** in the first release.

constellation

 a group of stars that form a recognizable pattern and have a name; a group of related or similar ideas, things,

or people

synonym: asterism, array, pattern

(1) the stars of the Scorpion **constellation**, (2) northern **constellation**

Navigators still use the Little Bear constellation at sea.

infuse

v. to fill something with a particular quality, feeling, or influence; to imbue

synonym: instill, fill, permeate

(1) **infuse** with spirit, (2) **infuse** life with meaning She **infused** fresh herbs into the soup for added flavor.

threefold

adj. three times as great or as many

synonym: three, triple, three times

rise nearly threefold, (2) threefold increase
 The price of the item was reduced threefold after the sale.

evenly

adv. in equal amounts or shares; in a balanced or impartial way

synonym: constantly, smoothly, equally

(1) **evenly** colored, (2) almost **evenly** divided This product can spread the cement **evenly**.

expansion

 the process of becoming larger or more extensive, or the result of this process

synonym: growth, enlargement, development

(1) industrial **expansion**, (2) **expansion** project The company is undergoing an **expansion**, opening new locations in several states.

configuration

 the arrangement or pattern of something or a group of related things

synonym: arrangement, composition, formatting

(1) **configuration** of the system, (2) engine **configuration**The **configuration** of molecules in steel changes significantly with temperature.

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.

involve

 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.

configure

 to set up or arrange something in a particular way or for a specific purpose

synonym: arrange, set up, organize

configure alarm notification, (2) configure options
 need to configure my computer's settings to connect to the internet.

undergo

v. to go through something unpleasant or that involves a change

synonym: experience, suffer, endure

(1) undergo surgery, (2) undergo a decrease

The train has to **undergo** rigorous safety checks.

systematic

adj. done or acting according to a determined set of systems or plans:

synonym: periodic, frequent, organized

(1) a **systematic** reformation, (2) **systematic** botany Science is based on the **systematic** classification of experience.

therapeutic

adj. relating to or involved in the treatment of illness or injury *synonym*: healing, remedial, curative

(1) **therapeutic** massage, (2) **therapeutic** administration Yoga is known to have **therapeutic** benefits for the mind and body.

aim

- v. to try or plan to get or achieve something synonym: aspire, direct, target
- (1) **aim** at a specific target, (2) **aim** to be a nurse We **aim** for an overseas expansion.

biomedical

 adj. relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare

synonym: medical, clinical, health-related

(1) **biomedical** assay, (2) cutting-edge **biomedical Biomedical** engineering focuses on developing new medical technologies and innovations to improve patient health outcomes.

biopsy

n. the process of removing and examining tissue from the body of the sick person to determine the existence or cause of a disease

synonym: examination, autopsy

biopsy of bone marrow, (2) liquid biopsy
 The doctor performed an excisional breast biopsy.

breast

 either of the two round soft parts of a woman's chest which secrete milk after childbirth

synonym: bosom, chest, bust

(1) **breast** cancer, (2) the mountain's **breast** He grilled the **breast** meat of a chicken.

cancer

 abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells

synonym: tumor, carcinoma, malignancy

(1) cancer diagnosis, (2) cancer research

Breast **cancer** is the most common type of cancer in women.

immune

adj. protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells

synonym: resistant, unsusceptible, unaffected

(1) **immune** from criminal prosecution, (2) the cell of the **immune** system

The vaccination does not necessarily make you completely **immune**.

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.

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.

biology

- the scientific study of life and the natural processes of living things
- (1) evolutionary **biology**, (2) cell and molecular **biology** In junior high school, we had to dissect a frog in **biology** class.

tick

 a light, sharp, repetitive sound or action; a mark indicating that something is correct or has been done; any of two families of small parasitic arachnids with

barbed proboscis

synonym: sound, noise, beat

(1) tick of the clock, (2) tick fever

I always put a **tick** mark next to the items on my grocery list after buying them.

tumor

 a mass of diseased tissue that forms when cells in the body divide and grow in an uncontrolled way

synonym: neoplasm, mass, lump

(1) **tumor** growth, (2) **tumor** at remote sites

The patient was diagnosed with a **tumor** in her lung.

wipe

v. to clean or dry something by rubbing with a piece of cloth or paper or one's hand and removing dirt, food, or liquid

synonym: clean, brush, swab

(1) **Wipe** off dirt, (2) **wipe** with water

Please wipe your sweat with this towel.

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.

guesswork

 the act or process of making an estimate or speculation based on incomplete or uncertain information; conjecture or supposition

synonym: speculation, conjecture, estimation

(1) pure **guesswork**, (2) rely on **guesswork**

Making decisions based on **guesswork** can lead to costly mistakes.

reliable

adj. worthy of being relied on; trustworthysynonym: dependable, trustworthy, dedicated

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

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

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.

gravity

n. the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn

synonym: heaviness, attraction, weight

(1) the attraction of **gravity**, (2) preserve my **gravity**The astronaut felt weightless in space due to the absence of **gravity**.

aerodynamics

 the study of the motion of air, particularly its interaction with solid objects moving through it, such as aircraft or cars

synonym: aeromechanics, aeronautics, airflow

(1) **aerodynamics** research, (2) **aerodynamics** design The **aerodynamics** of the car allowed it to glide smoothly through the air.

rocket

 a large tube-shaped object that moves very first by a stream of gases let out behind it, used for space travel or as a weapon

synonym: projectile, missile

(1) **rocket** attack against the enemy, (2) **rocket** fuel The **rocket** launch platform is visible from this hill.

feat

 a notable or impressive achievement, especially one that requires great skill or bravery

synonym: achievement, accomplishment, exploit

(1) intellectual **feat**, (2) **feat** accomplishment It is an incredible **feat** to climb Mount Everest, the highest mountain in the world.

engineer

 a person whose job is designing, building, or maintaining something such as machines, structures, or software

synonym: architect, creator, builder

(1) a civil engineer, (2) engineer shortage

The **engineer** will repair my telephone tomorrow morning.

necessarily

adv. in an essential manner; in such a way as could not be otherwise

synonym: inevitable, certainly, automatically

(1) not **necessarily** a problem, (2) **necessarily** true

This accident was something that happened **necessarily**.

analogous

adj. similar or equivalent in some respects, typically as a result of functioning in a similar way

synonym: similar, comparable, equivalent

(1) analogous fashion, (2) entirely analogous

The human heart is **analogous** to a pump in a plumbing system.

argue

v. to express differing opinions or points of view, often in a heated or contentious manner; to present a case or reasoning to persuade or convince others

synonym: debate, dispute, quarrel

(1) argue a case, (2) argue passionately

The couple began to **argue** over which restaurant to go to for dinner.

overcome

v. to succeed in controlling or dealing with something, such as a problem or difficulty; to defeat or overwhelm someone

synonym: beat, confound, overwhelm

- (1) **overcome** opponents, (2) **overcome** all difficulties He tried to **overcome** a bad reputation and win the election.
- any epidemic disease with a high death rate; (also called pest) a serious, sometimes fatal, infection spread by rats that causes fever and swellings on the body

plague

synonym: epidemic, pandemic, pest

(1) catch the **plague**, (2) deadly **plague**

Our farm experienced a **plague** of locusts this year.

bioengineering

 the application of engineering principles to the design and production of biological systems and products

synonym: biomedical engineering, genetic engineering, biotechnology

(1) **bioengineering** field, (2) **bioengineering** techniques
The **bioengineering** lab has state-of-the-art equipment and software for analyzing biological systems and designing new

solutions.

endeavor

v. to make an earnest attempt or effort; to strive or work hard towards a goal or objective

synonym: attempt, strive, undertake

(1) **endeavor** to succeed, (2) **endeavor** as much as possible

We will **endeavor** to find a solution to the problem as quickly as possible.

govern

 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.

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.

Session 2: Spelling

1.	control	my	em	_r
----	---------	----	----	----

- 2. ex__t control
- 3. en___or to succeed
- 4. cu c meter
- an___r weight
- 6. en us potential
- 7. his conclusion was ob s
- 8. dis sh these two things
- 9. co____us effort
- 10. di____e control

- a strong feeling such as love, anger,
 etc. deriving from one's situation, mood,
 or relationships with others
- v. to put forth effort; to put into action; to bring into play
- v. to make an earnest attempt or effort; to strive or work hard towards a goal or objective
- adj. having the shape of a cube or being of three dimensions; measured in units that are the third power of a linear unit
- n. a device, typically made of metal, that is used to moor a ship or boat in a particular place, typically by being dropped to the seabed; a central cohesive source of support and stability
- adj. extremely large or great
- adj. easy to see, discover or understand
- v. to notice or understand the difference between two people or things
- adj. being aware of and able to respond to what is happening around you
- a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems

ANSWERS: 1. emotion, 2. exert, 3. endeavor, 4. cubic, 5. anchor, 6. enormous, 7. obvious, 8. distinguish, 9. conscious, 10. disease

11.	cot research	<i>v</i> .	to organize and carry out a particular activity
12.	cit 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
13.	dn stockings	v.	to mend a piece of clothing by sewing over a hole or tear with small, tight stitches
14.	a sysic reformation	adj.	done or acting according to a determined set of systems or plans:
15.	ath firmly	<i>v</i> .	to fasten, join, or connect one thing to another
16.	dp hazardous waste	<i>v</i> .	to deposit or dispose of something, such as trash, waste, etc., carelessly or hurriedly
17.	larle project	adj.	involving many people or things and involving a lot of change or activity
18.	glg reviews	adj.	highly enthusiastic; greatly praised
19.	d_e a T-shirt red	<i>v</i> .	to color a textile or hair by immersing it in a colored liquid or substance
20.	northern conion	n.	a group of stars that form a recognizable pattern and have a name; a group of related or similar ideas, things, or people
21.	the crosswise dion	n.	a measurable extent of a particular kind, such as width, height, or length
22.	pat with weight loss	n.	a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic

ANSWERS: 11. conduct, 12. circuit, 13. darn, 14. systematic, 15. attach, 16. dump, 17. large-scale, 18. glowing, 19. dye, 20. constellation, 21. dimension, 22. patient

23.	thId increase	adj.	three times as great or as many
24.	cot a background check	<i>v</i> .	to organize and carry out a particular activity
25.	rele access	adj.	worthy of being relied on; trustworthy
26.	vie stars	adj.	capable of being seen; or open to easy view
27.	dn hole	ν.	to mend a piece of clothing by sewing over a hole or tear with small, tight stitches
28.	bioing field	n.	the application of engineering principles to the design and production of biological systems and products
29.	teon measurement	n.	a small spoon used to stir or measure out small amounts of some ingredients, typically sugar, salt, or spices, in cooking or serving
30.	juon point	n.	a point where two or more things meet or come together, particularly roads, railways, or rivers; a place or time of joining or combining
31.	a theoretical concept in neunce	n.	the scientific study of the function, structure, and disorder of the brain and the nervous system
32.	glg cheeks	adj.	highly enthusiastic; greatly praised
33.	tur at remote sites	n.	a mass of diseased tissue that forms when cells in the body divide and grow in an uncontrolled way
34.	uno surgery	<i>v</i> .	to go through something unpleasant or that involves a change

ANSWERS: 23. threefold, 24. conduct, 25. reliable, 26. visible, 27. darn, 28. bioengineering, 29. teaspoon, 30. junction, 31. neuroscience, 32. glowing, 33. tumor, 34. undergo

- an untidy state or a lack of organization;
- adj. unbelievable; enormous
- to put forth effort; to put into action; to ν. bring into play

ANSWERS: 35. confront, 36. swell, 37. distance, 38. trigger, 39. polymer, 40. density, 41. aerodynamics, 42. disorder, 43. incredible, 44. exert

43. inc le amount

44. ex tinfluence

45.	ade a cooperative relationship	<i>v</i> .	to go or move forward; to develop in a positive way
46.	Aler's risk factors	n.	a neurodegenerative disease that causes memory loss, cognitive decline, and behavioral issues; is the most common cause of dementia in older adults
47.	pint the problem	<i>v</i> .	to locate or identify the exact position in space or time of something
48.	protein biole	n.	a molecule produced by a living organism, typically composed of carbon, hydrogen, oxygen, nitrogen, and other elements, plays a vital role in various biological processes such as metabolism, energy production, and genetic information transfer
49.	engine conion	n.	the arrangement or pattern of something or a group of related things
50.	inI a chairperson	ν.	to fix furniture, a machine, or a piece of equipment into position so that it can be used; put into an office or a position
51.	inly anticipated	adv.	at the beginning; at first
52.	p_r review	n.	a person who has the same age, status, or ability
53.	high school gd	n.	(informal for graduate) a student who has recently graduated or is about to graduate from a school, college, or university
54.	a gr_n of sand	n.	wheat or any other small hard seeds used as a food; a relatively small granular particle of a substance

ANSWERS: 45. advance, 46. Alzheimer, 47. pinpoint, 48. biomolecule, 49. configuration, 50. install, 51. initially, 52. peer, 53. grad, 54. grain

55. things at the nale	adj.	on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
56. new dion	n.	a measurable extent of a particular kind, such as width, height, or length
57. comty theory	n.	the state or quality of being complicated or intricate and difficult to understand
58. ban ride	n.	a small bag made of thin rubber or other light material that can be inflated with air or gas, used as a toy or as a decoration; (verb) to become inflated
59. sye circuit	n.	the fact or state of failing to finish an activity and of stopping using, making, or doing it
60. are a case	v.	to express differing opinions or points of view, often in a heated or contentious manner; to present a case or reasoning to persuade or convince others
61. chn reaction	n.	a series of connected links or objects; a system or group of interconnected elements; a restraint or shackle
62. get incly insecure	adv.	in a way that is very difficult to believe; exceedingly or extremely
63. gon 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
64. ime from criminal prosecution	adj.	protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells

ANSWERS: 55. nanoscale, 56. dimension, 57. complexity, 58. balloon, 59. synapse, 60. argue, 61. chain, 62. incredibly, 63. govern, 64. immune

ANSWERS: 65. aim, 66. gravity, 67. mediate, 68. cancer, 69. absorb, 70. wipe, 71. extract, 72. biomedical, 73. configure

ν.

particular way or for a specific purpose

74.	supply chn	n.	a series of connected links or objects; a system or group of interconnected elements; a restraint or shackle
75.	cre manners	adj.	being in an unrefined or natural state; (noun) the unprocessed form of oil
76.	micpe slide	n.	an instrument used to see objects or substances that are too small to be seen with the naked eye
77.	nale device	adj.	on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
78.	a big bb of yellow	n.	a small amount or drop of a thick liquid or sticky substance
79.	spI ability	adj.	of or relating space and the position, area, and size of things
80.	a chal compound	adj.	relating to or connected with chemistry;
81.	an inle asset	adj.	impossible or nearly impossible to see
82.	the inon of new techniques	n.	the creation of a new device or process resulting from study and experimentation; the act of inventing
83.	orn of information	n.	the first existence or beginning of something
84.	oppon campaign	n.	the act of disagreeing or resisting; the state of strong disagreement
85.	vinyl mor	n.	a molecule capable of bonding chemically with other molecules to form a polymer, which is the basic building block of larger molecular structures

ANSWERS: 74. chain, 75. crude, 76. microscope, 77. nanoscale, 78. blob, 79. spatial, 80. chemical, 81. invisible, 82. invention, 83. origin, 84. opposition, 85. monomer

86.	p_r group	n.	a person who has the same age, status, or ability
87.	biole structure	n.	a molecule produced by a living organism, typically composed of carbon, hydrogen, oxygen, nitrogen, and other elements, plays a vital role in various biological processes such as metabolism, energy production, and genetic information transfer
88.	exe sports	adj.	very great in amount or degree
89.	bd the man's hands	<i>v</i> .	to tie or fasten someone or something tightly with rope, string, etc. so that they cannot move or are held together strongly
90.	sn the face of the man	ν.	to examine something hastily, with the eyes or with a machine, to get information
91.	unsolved myy	n.	something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest of something; a genre of fiction that involves the solution of a crime or a puzzle
92.	lon grip	<i>v</i> .	to make something less tight, firm, or fixed; to free from restraint or constraint; to relax
93.	traditional meal	adj.	of or relating to the treatment or cure of disease
94.	ade the technology	<i>v</i> .	to go or move forward; to develop in a positive way

ANSWERS: 86. peer, 87. biomolecule, 88. extreme, 89. bind, 90. scan, 91. mystery, 92. loosen, 93. medicinal, 94. advance

95. demte mastery	v.	to display something or give an exhibition to an interested audience	
96. deadly ple	n.	any epidemic disease with a high death rate; (also called pest) a serious, sometimes fatal, infection spread by rats that causes fever and swellings on the body	
97. t_k fever	n.	a light, sharp, repetitive sound or action; a mark indicating that something is correct or has been done; any of two families of small parasitic arachnids with barbed proboscis	
98. afraid to show emn	n.	a strong feeling such as love, anger, etc. deriving from one's situation, mood, or relationships with others	
99. cloth dir	n.	a soft, absorbent piece of material worn by babies and young children around their waist and between their legs to catch urine and feces	
100. exge rate	v.	to give something and receive something else in return, often with the implication that the items being traded are of equal or comparable value; (noun) the act of giving or taking something in return for something else; a place or system where goods or services can be bought, sold, or traded	
101. die prevention	n.	a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems	
ANSWERS: 95. demonstrate, 96. plague, 97. tick, 98. emotion, 99. diaper, 100. exchange, 101. disease			

102. improve hunld	adj.	a hundred times as great or as much
103. corn yid	n.	the total output of crops, profits, etc. that are produced; (verb) to produce or supply helpful something, such as a profit, an amount of food, or information
104. the branch of neunce	n.	the scientific study of the function, structure, and disorder of the brain and the nervous system
105. cous of having succeeded	adj.	being aware of and able to respond to what is happening around you
106. expnt design	n.	the scientific test conducted to observe what happens and gain new knowledge
107. nen cell body	n.	a cell that is specialized to carry information within the brain and between the brain and other parts of the body
108. enor as much as possible	v.	to make an earnest attempt or effort; to strive or work hard towards a goal or objective
109. professor of chry	n.	the branch of the natural sciences dealing with the composition of substances and their properties and reactions
110. degree in eleal engineering	adj.	relating to electricity
111. sysic botany	adj.	done or acting according to a determined set of systems or plans:
112. charged pale	n.	a small piece of something; a word or piece of a term with grammatical function but little or no significance

ANSWERS: 102. hundredfold, 103. yield, 104. neuroscience, 105. conscious, 106. experiment, 107. neuron, 108. endeavor, 109. chemistry, 110. electrical, 111. systematic, 112. particle

113. lon knot	<i>v</i> .	to make something less tight, firm, or fixed; to free from restraint or constraint; to relax
114. cont a global warming	<i>v</i> .	to face, meet or deal with a problem or difficult situation or person
115. ener shortage	n.	a person whose job is designing, building, or maintaining something such as machines, structures, or software
116. nutrient-dee foods	adj.	containing a large number of people or something with little space between them
117. exge a few friendly words	ν.	to give something and receive something else in return, often with the implication that the items being traded are of equal or comparable value; (noun) the act of giving or taking something in return for something else; a place or system where goods or services can be bought, sold, or traded
118. trigger a reon	n.	a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others
119. a comed process	adj.	involving a lot of different things or parts in a way that is difficult to understand or analyze
120. a weak pue	n.	the regular heartbeat as it sends blood around the body, especially when it is felt at the wrist or side of the neck; a solid regular vibration of sound, electric current, light, or other waves

ANSWERS: 113. loosen, 114. confront, 115. engineer, 116. dense, 117. exchange, 118. reaction, 119. complicated, 120. pulse

<i>v</i> .	to legally control and direct a country, city, group of people, etc. and be responsible for introducing new laws, organizing and maintaining public services
<i>v</i> .	to deposit or dispose of something, such as trash, waste, etc., carelessly or hurriedly
adj.	relating to electricity
n.	the process of becoming larger or more extensive, or the result of this process
n.	a small bag made of thin rubber or other light material that can be inflated with air or gas, used as a toy or as a decoration; (verb) to become inflated
adv.	in an essential manner; in such a way as could not be otherwise
n.	the act or process of finding information, a place, or an object, or learning about something that was previously not known
n.	an ensemble of similar cells of the animal or plant that together carry out a specific function
adv.	in an essential manner; in such a way as could not be otherwise
<i>v</i> .	to include or affect someone or something as a necessary part of something else
	v. adj. n. n. adv. adv.

ANSWERS: 121. govern, 122. dump, 123. electrical, 124. expansion, 125. balloon, 126. necessarily, 127. discovery, 128. tissue, 129. necessarily, 130. involve

ν.	to plan, prepare for, and carry out something
adj.	hard or firm; characterized by good substantial quality
adj.	not well known to many people
adj.	very sudden, very excellent, or full of action and excitement
n.	the scientific study of life and the natural processes of living things
n.	a 3D pixel (= a small but volumetric unit) in a three-dimensional space defined by x-, y-, and z- coordinates; a digital image element representing a tiny cube in a 3D picture, with its color and brightness determined by the values assigned to the voxels in its vicinity
adj.	protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells
n.	single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease
adj.	a hundred times as great or as much
n.	the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance
	adj. adj. n. adj. adj. adj.

ANSWERS: 131. arrange, 132. solid, 133. obscure, 134. dramatic, 135. biology, 136. voxel, 137. immune, 138. bacteria, 139. hundredfold, 140. distance

141. anon film	n.	the technique of photographing successive drawings or positions of puppets or models to create an illusion of movement when the film is shown as a sequence; enthusiasm and energy in the way you look or behave
142. the yid on the bond	n.	the total output of crops, profits, etc. that are produced; (verb) to produce or supply helpful something, such as a profit, an amount of food, or information
143. a private indal	n.	a single person or thing, as distinct from a group
144. dee a question	v.	to make up someone's mind about something; to come to a conclusion or judgment after considering options
145. spherical gery	n.	the area of pure mathematics that deals with the points, lines, curves, and surfaces
146. abb a shock	v.	to take in a fluid or other substance gradually
147. neutral hydrogen ams	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
148. sur bad grades	ν.	to experience pain, distress, or hardship; to undergo or endure something painful or unpleasant
149. larle agriculture	adj.	involving many people or things and involving a lot of change or activity

ANSWERS: 141. animation, 142. yield, 143. individual, 144. decide, 145. geometry, 146. absorb, 147. atom, 148. suffer, 149. large-scale

150. vo e of work 151. a m to be a nurse 152. s n a document into PDF 153. g d student 154. an___r bolt 155. flour made from gr_n 156. af t with the plague 157. fun____al rights 158. re r the contract void

159. an____on studio

- n. the amount of space occupied by an object or substance; the magnitude of sound
- v. to try or plan to get or achieve something
- v. to examine something hastily, with the eyes or with a machine, to get information
- n. (informal for graduate) a student who
 has recently graduated or is about to
 graduate from a school, college, or
 university
- n. a device, typically made of metal, that is used to moor a ship or boat in a particular place, typically by being dropped to the seabed; a central cohesive source of support and stability
- wheat or any other small hard seeds used as a food; a relatively small granular particle of a substance
- v. to cause pain, suffering, or distress to someone or something
- adj. forming an essential base or core from which everything else develops or is affected
- v. to bring someone or something into a particular state; to provide something such as service, help, etc.
- n. the technique of photographing successive drawings or positions of puppets or models to create an illusion of movement when the film is shown as a sequence; enthusiasm and energy in the way you look or behave

ANSWERS: 150. volume, 151. aim, 152. scan, 153. grad, 154. anchor, 155. grain, 156. afflict, 157. fundamental, 158. render, 159. animation

n.	abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells
n.	the act or process of finding information, a place, or an object, or learning about something that was previously not known
ν.	to deal with a situation, problem, or strong emotion
adj.	relating to or connected with chemistry;
v.	to give something, especially money or goods, to provide or achieve something together with other people
n.	the scientific study of life and the natural processes of living things
<i>v</i> .	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
adj.	capable of being seen; or open to easy view
n.	an individual example or sample of something, typically used to represent a larger group or category
adj.	forming an essential base or core from which everything else develops or is affected
	n. v. adj. v. adj. n.

ANSWERS: 160. cancer, 161. discovery, 162. handle, 163. chemical, 164. contribute, 165. biology, 166. develop, 167. visible, 168. specimen, 169. fundamental

a large tube-shaped object that moves very first by a stream of gases let out behind it, used for space travel or as a weapon 172. theory of comon 173. betanical spen 174. core options 175. chemical reon 176. theic massage 177. moar structure 177. moar structure 178. moar biology 178. moar biology 178. moar biology 178. moar biology 179. de	170. acrylamide mor	n.	a molecule capable of bonding chemically with other molecules to form a polymer, which is the basic building block of larger molecular structures
something, especially an answer or amount, by using a machine or calculator 173. botanical spen 174. core options 175. chemical reon 176. theic massage 177. moar structure 177. moar structure 178. moar biology 179. mo_ ar structure 170. mo_ ar biology 170. mo_ ar biology 170. mo_ ar biology 171. mo_ ar biology 172. mo_ ar biology 173. mo_ ar biology 174. mo_ ar biology 175. mo_ ar biology 176. mo_ ar biology 177. mo_ ar biology 178. mo_ ar biology 179. mo_ ar biology 179. mo_ ar biology 170. mo_ ar biology 17	171. rot attack against the enemy	n.	very first by a stream of gases let out behind it, used for space travel or as a
something, typically used to represent a larger group or category 174. core options v. to set up or arrange something in a particular way or for a specific purpose 175. chemical reon n. a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others 176. theic massage adj. relating to or involved in the treatment of illness or injury 177. moar structure adj. of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds) 178. moar biology adj. of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical	172. theory of comon	n.	something, especially an answer or amount, by using a machine or
particular way or for a specific purpose n. a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others 176. theic massage adj. relating to or involved in the treatment of illness or injury 177. moar structure adj. of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds) 178. moar biology adj. of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical structure forces known as chemical	173. botanical spen	n.	something, typically used to represent a
feelings or attitude; (in chemistry) a process in which one or more substances are changed into others 176. theic massage adj. relating to or involved in the treatment of illness or injury 177. moar structure adj. of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds) 178. moar biology adj. of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical	174. core options	<i>v</i> .	
of illness or injury 177. moar structure adj. of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds) 178. moar biology adj. of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical	175. chemical reon	n.	feelings or attitude; (in chemistry) a process in which one or more
two or more atoms held together by attractive forces known as chemical bonds) 178. moar biology adj. of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical	176. theic massage	adj.	_
two or more atoms held together by attractive forces known as chemical	177. moar structure	adj.	two or more atoms held together by attractive forces known as chemical
boliasy	178. moar biology	adj.	two or more atoms held together by

ANSWERS: 170. monomer, 171. rocket, 172. computation, 173. specimen, 174. configure, 175. reaction, 176. therapeutic, 177. molecular, 178. molecular

179. small moles	n.	a group of two or more atoms held together by attractive forces known as chemical bonds
180. juon box	n.	a point where two or more things meet or come together, particularly roads, railways, or rivers; a place or time of joining or combining
181. inve species	adj.	spreading very quickly, and often aggressively, and difficult to stop
182. make dric changes	adj.	very sudden, very excellent, or full of action and excitement
183. Euclidean gery	n.	the area of pure mathematics that deals with the points, lines, curves, and surfaces
184. phyly and mentally	adv.	in a way related to a person's body or appearance rather than their mind
185. por fiber	n.	a substance composed of macromolecules (= large groups of atoms) made from many smaller and simpler molecules
186. demte a difference	<i>v</i> .	to display something or give an exhibition to an interested audience
187. Aler's brain	n.	a neurodegenerative disease that causes memory loss, cognitive decline, and behavioral issues; is the most common cause of dementia in older adults
188. indal alcohol	adj.	of or relating to or resulting from industry

ANSWERS: 179. molecule, 180. junction, 181. invasive, 182. dramatic, 183. geometry, 184. physically, 185. polymer, 186. demonstrate, 187. Alzheimer, 188. industrial

adj.	unbelievable; enormous
n.	the organ inside the head that is responsible for one's movement, thought, memory, and feeling
v.	to make up someone's mind about something; to come to a conclusion or judgment after considering options
v.	to try to bring about an agreement or understanding between people who are in conflict
n.	the act of disagreeing or resisting; the state of strong disagreement
v.	to force, take, or pull apart; mark as different
n.	the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
n.	a 3D pixel (= a small but volumetric unit in a three-dimensional space defined by x-, y-, and z- coordinates; a digital image element representing a tiny cube in a 3D picture, with its color and brightness determined by the values assigned to the voxels in its vicinity
n.	the act or process of making an estimate or speculation based on incomplete or uncertain information; conjecture or supposition
	n. v. n. n. n.

ANSWERS: 189. incredible, 190. brain, 191. decide, 192. mediate, 193. opposition, 194. separate, 195. structure, 196. voxel, 197. guesswork

198. become increasingly comed	adj.	involving a lot of different things or parts in a way that is difficult to understand or analyze
199. evely succeed	adv.	finally, particularly after a long time or a lot of struggle, complications, and so on
200. exe weather events	adj.	very great in amount or degree
201. tk of the clock	n.	a light, sharp, repetitive sound or action; a mark indicating that something is correct or has been done; any of two families of small parasitic arachnids with barbed proboscis
202. display reson	n.	a firm decision or determination to do or not do something; the action of solving a problem, dispute, or conflict; the quality of being resolved or determined; the clarity and sharpness of an image or display
203. rot fuel	n.	a large tube-shaped object that moves very first by a stream of gases let out behind it, used for space travel or as a weapon
204. the attraction of gry	n.	the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn
205. sod employment measures	adj.	hard or firm; characterized by good substantial quality
206. ath a file to an e-mail	<i>v</i> .	to fasten, join, or connect one thing to another
ANSWERS: 198. complicated, 199. eventuresolution, 203. rocket, 204. gravity, 205. s	•	

207. common inon	n.	the creation of a new device or process resulting from study and experimentation; the act of inventing
208. cutting-edge bioal	adj.	relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare
209. ovme opponents	ν.	to succeed in controlling or dealing with something, such as a problem or difficulty; to defeat or overwhelm someone
210. dissh man from the other animals	ν.	to notice or understand the difference between two people or things
211. pint signs of manipulation	ν.	to locate or identify the exact position in space or time of something
212. decision-making prs	n.	a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
213. loss of muscle tie	n.	an ensemble of similar cells of the animal or plant that together carry out a specific function
214. conion of the system	n.	the arrangement or pattern of something or a group of related things
215. reson of a conflict	n.	a firm decision or determination to do or not do something; the action of solving a problem, dispute, or conflict; the quality of being resolved or determined; the clarity and sharpness of an image or display

ANSWERS: 207. invention, 208. biomedical, 209. overcome, 210. distinguish, 211. pinpoint, 212. process, 213. tissue, 214. configuration, 215. resolution

216.	evely become obsolete	adv.	finally, particularly after a long time or a lot of struggle, complications, and so on
217.	ovme all difficulties	<i>v</i> .	to succeed in controlling or dealing with something, such as a problem or difficulty; to defeat or overwhelm someone
218.	dee forests	adj.	containing a large number of people or something with little space between them
219.	diagnosed inly as a tumor	adv.	at the beginning; at first
220.	the stars of the Scorpion conion	n.	a group of stars that form a recognizable pattern and have a name; a group of related or similar ideas, things, or people
221.	cognitive comty	n.	the state or quality of being complicated or intricate and difficult to understand
222.	excite the nens	n.	a cell that is specialized to carry information within the brain and between the brain and other parts of the body
223.	racial orn	n.	the first existence or beginning of something
224.	obe answer	adj.	not well known to many people
225.	spI distribution	adj.	of or relating space and the position, area, and size of things
226.	sur a setback	<i>v</i> .	to experience pain, distress, or hardship; to undergo or endure something painful or unpleasant

ANSWERS: 216. eventually, 217. overcome, 218. dense, 219. initially, 220. constellation, 221. complexity, 222. neuron, 223. origin, 224. obscure, 225. spatial, 226. suffer

227. epsy medication	n.	a neurological disorder characterized by recurrent seizures or convulsions, which can manifest in a variety of ways and be caused by various factors
228. zm in on a photo	v.	to move along very quickly; (noun) the act of rising upward into the air
229. electron micpe	n.	an instrument used to see objects or substances that are too small to be seen with the naked eye
230. almost evy divided	adv.	in equal amounts or shares; in a balanced or impartial way
231. indal freedom	n.	a single person or thing, as distinct from a group
232. brt cancer	n.	either of the two round soft parts of a woman's chest which secrete milk after childbirth
233. end at a sye	n.	the fact or state of failing to finish an activity and of stopping using, making, or doing it
234. guarantee rele delivery	adj.	worthy of being relied on; trustworthy
235. federal cit 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
236. incly cheerful character	adv.	in a way that is very difficult to believe; exceedingly or extremely
237. epsy seizure	n.	a neurological disorder characterized by recurrent seizures or convulsions, which can manifest in a variety of ways and be caused by various factors

ANSWERS: 227. epilepsy, 228. zoom, 229. microscope, 230. evenly, 231. individual, 232. breast, 233. synapse, 234. reliable, 235. circuit, 236. incredibly, 237. epilepsy

238. liquid biy	n.	the process of removing and examining tissue from the body of the sick person to determine the existence or cause of a disease
239. parallel comon	n.	the act or process of calculating something, especially an answer or amount, by using a machine or calculator
240. biy of bone marrow	n.	the process of removing and examining tissue from the body of the sick person to determine the existence or cause of a disease
241. higher pixel dey	n.	the quality of compactness of a substance
242. inle stars	adj.	impossible or nearly impossible to see
243. cuc structure	adj.	having the shape of a cube or being of three dimensions; measured in units that are the third power of a linear unit
244. price of cre oil	adj.	being in an unrefined or natural state; (noun) the unprocessed form of oil
245. tur growth	n.	a mass of diseased tissue that forms when cells in the body divide and grow in an uncontrolled way
246. bd old letters into a bundle	ν.	to tie or fasten someone or something tightly with rope, string, etc. so that they cannot move or are held together strongly
247. a civil ener	n.	a person whose job is designing, building, or maintaining something such as machines, structures, or software

ANSWERS: 238. biopsy, 239. computation, 240. biopsy, 241. density, 242. invisible, 243. cubic, 244. crude, 245. tumor, 246. bind, 247. engineer

248. people with bipolar dier	n.	an untidy state or a lack of organization; a physical condition or illness that causes problems with how a section of the body or brain functions
249. film reon	n.	a performance or interpretation, often of a piece of music or artwork; a version or translation of something into another language or style; the act of surrendering someone to another country for interrogation or punishment
250. pale energy	n.	a small piece of something; a word or piece of a term with grammatical function but little or no significance
251. a bb of jelly	n.	a small amount or drop of a thick liquid or sticky substance
252. dir bag	n.	a soft, absorbent piece of material worn by babies and young children around their waist and between their legs to catch urine and feces
253. d_e patterns	<i>v</i> .	to color a textile or hair by immersing it in a colored liquid or substance
254. bioing techniques	n.	the application of engineering principles to the design and production of biological systems and products
255. stay phyly fit	adv.	in a way related to a person's body or appearance rather than their mind
256. are passionately	v.	to express differing opinions or points of view, often in a heated or contentious manner; to present a case or reasoning to persuade or convince others

ANSWERS: 248. disorder, 249. rendition, 250. particle, 251. blob, 252. diaper, 253. dye, 254. bioengineering, 255. physically, 256. argue

257. oxygen am	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
258. the chry of soil	n.	the branch of the natural sciences dealing with the composition of substances and their properties and reactions
259. reon of judgment	n.	a performance or interpretation, often of a piece of music or artwork; a version or translation of something into another language or style; the act of surrendering someone to another country for interrogation or punishment
260. mole behavior	n.	a group of two or more atoms held together by attractive forces known as chemical bonds
261. prs improvement	n.	a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
262. We off dirt	<i>v</i> .	to clean or dry something by rubbing with a piece of cloth or paper or one's hand and removing dirt, food, or liquid
263. theic administration	adj.	relating to or involved in the treatment of illness or injury
ANSWERS: 257. atom, 258. chemistry, 259. 262. wipe, 263. therapeutic	9. re	ndition, 260. molecule, 261. process,

264. uno a decrease	v.	to go through something unpleasant or that involves a change
265. rise nearly thld	adj.	three times as great or as many
266. enus amount	adj.	extremely large or great
267. conte to society	v.	to give something, especially money or goods, to provide or achieve something together with other people
268. permanent br_n damage	n.	the organ inside the head that is responsible for one's movement, thought, memory, and feeling
269. trr a biochemical response	v.	to make something happen suddenly; to cause something such as a device, machine, etc. to function
270. beginning of the indal revolution	adj.	of or relating to or resulting from industry
271. intellectual ft	n.	a notable or impressive achievement, especially one that requires great skill or bravery
272. zm lens	<i>v</i> .	to move along very quickly; (noun) the act of rising upward into the air
273. swl a population	<i>v</i> .	to become larger or more inflated; to become more intense or important
274. anus fashion	adj.	similar or equivalent in some respects, typically as a result of functioning in a similar way
275. a brief ext from the book	n.	a short passage taken from a book, piece of music, etc.; a substance obtained from something through a specific process; (verb) to obtain from something or to remove something by effort or force

to

ANSWERS: 264. undergo, 265. threefold, 266. enormous, 267. contribute, 268. brain, 269. trigger, 270. industrial, 271. feat, 272. zoom, 273. swell, 274. analogous, 275. extract

276. pat in the hospital	n.	a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic
277. pathogenic baia	n.	single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease
278. a selfish deon	n.	the act or process of making up someone's mind about something; a choice or judgment reached after considering options
279. entirely anus	adj.	similar or equivalent in some respects, typically as a result of functioning in a similar way
280. lick a teon	n.	a small spoon used to stir or measure out small amounts of some ingredients, typically sugar, salt, or spices, in cooking or serving
281. sete video into chapter	<i>v</i> .	to force, take, or pull apart; mark as different
282. exon project	n.	the process of becoming larger or more extensive, or the result of this process
283. pure gurk	n.	the act or process of making an estimate or speculation based on incomplete or uncertain information;

ANSWERS: 276. patient, 277. bacteria, 278. decision, 279. analogous, 280. teaspoon, 281. separate, 282. expansion, 283. guesswork

conjecture or supposition

284.	the mountain's brt
285.	inI a door
286.	aerics design
287.	inve breast cancer
288.	series of expnts
289.	deon authority
290.	dep a skill
291.	aft the economy
292.	pue waves

- either of the two round soft parts of a woman's chest which secrete milk after childbirth
- v. to fix furniture, a machine, or a piece of equipment into position so that it can be used; put into an office or a position
- n. the study of the motion of air,
 particularly its interaction with solid
 objects moving through it, such as
 aircraft or cars
- adj. spreading very quickly, and often aggressively, and difficult to stop
- n. the scientific test conducted to observe what happens and gain new knowledge
- n. the act or process of making up someone's mind about something; a choice or judgment reached after considering options
- 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
- v. to cause pain, suffering, or distress to someone or something
- n. the regular heartbeat as it sends blood around the body, especially when it is felt at the wrist or side of the neck; a solid regular vibration of sound, electric current, light, or other waves

ANSWERS: 284. breast, 285. install, 286. aerodynamics, 287. invasive, 288. experiment, 289. decision, 290. develop, 291. afflict, 292. pulse

293. high voe	n.	the amount of space occupied by an object or substance; the magnitude of sound
294. obs reasons	adj.	easy to see, discover or understand
295. meal chemistry	adj.	of or relating to the treatment or cure of disease
296. rer an assessment	v.	to bring someone or something into a particular state; to provide something such as service, help, etc.
297. f_t accomplishment	n.	a notable or impressive achievement, especially one that requires great skill or bravery
298. catch the ple	n.	any epidemic disease with a high death rate; (also called pest) a serious, sometimes fatal, infection spread by rats that causes fever and swellings on the body
299. evy colored	adv.	in equal amounts or shares; in a balanced or impartial way
300. are the meeting	v.	to plan, prepare for, and carry out something
301. ine life with meaning	ν.	to fill something with a particular quality,

302. the st____re of a machine

303. ha___ed the incident

ANSWERS: 293. volume, 294. obvious, 295. medicinal, 296. render, 297. feat, 298. plague, 299. evenly, 300. arrange, 301. infuse, 302. structure, 303. handle

n.

ν.

parts

strong emotion

feeling, or influence; to imbue

the way of construction of something

and the arrangement of its parts, or a complex thing constructed of many

to deal with a situation, problem, or

- 304. in___e with spirit
- 305. my____y novel

306. in____e a lot of paperwork

- v. to fill something with a particular quality, feeling, or influence; to imbue
- n. something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest of something; a genre of fiction that involves the solution of a crime or a puzzle
- v. to include or affect someone or something as a necessary part of something else

ANSWERS: 304. infuse, 305. mystery, 306. involve

Session 3: Fill in the Blanks

	Her response revealed idiocy unbelievable; enormous
2. v.	The jury must a decision on this complex case. to bring someone or something into a particular state; to provide something such as service, help, etc.
3. n.	The on my bike broke, leaving me stranded. a series of connected links or objects; a system or group of interconnected elements; a restraint or shackle
	This train departed later than scheduled. at the beginning; at first
	As an he had the right to make his own decisions and live his life as he saw fit. a single person or thing, as distinct from a group
	She her hair purple for a change.
	The company's rules the employee's working hours. to tie or fasten someone or something tightly with rope, string, etc. so that they cannot move or are held together strongly
8. v.	He himself to lift the heavyweight. to put forth effort; to put into action; to bring into play
	SWERS: 1. incredible, 2. render, 3. chain, 4. initially, 5. individual, 6. dyed, 7. bind

17. 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
18 design has become more focused on human nature aspect than ever before.
adj. of or relating to or resulting from industry
19. The company him after several years of service.
v. to deposit or dispose of something, such as trash, waste, etc., carelessly or hurriedly
20. Human behavior has characteristics.
adj. forming an essential base or core from which everything else develops or is affected
21. 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
22. Breast is the most common type of cancer in women.
abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells
23. There was a chemical of the lime with the groundwater.
n. a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others
24. The human heart is to a pump in a plumbing system.
adj. similar or equivalent in some respects, typically as a result of functioning in a similar way
ANSWERS: 17. circuit, 18. Industrial, 19. dumped, 20. fundamental, 21. structure, 22 cancer, 23. reaction, 24. analogous

39. This product can spread the cement
adv. in equal amounts or shares; in a balanced or impartial way
40. Some are common across cultures and backgrounds.
n. a strong feeling such as love, anger, etc. deriving from one's situation, mood, or relationships with others
41. This study four different ways to run a business.
v. to notice or understand the difference between two people or things
42. She stood on the podium and an audience.
v. to examine something hastily, with the eyes or with a machine, to get information
43. The incident a political controversy.
v. to make something happen suddenly; to cause something such as a device, machine, etc. to function
44. Yoga is known to have benefits for the mind and body.
adj. relating to or involved in the treatment of illness or injury
45. The price of the item was reduced after the sale.
adj. three times as great or as many
46. He became that he was being followed.
adj. being aware of and able to respond to what is happening around you
47. His arm was from the insect bite.
v. to become larger or more inflated; to become more intense or important
ANSWERS: 39. evenly, 40. emotions, 41. distinguished, 42. scanned, 43. triggered, 44. therapeutic, 45. threefold, 46. conscious, 47. swelling

ANSWERS: 63. hundredfold, 64. gravity, 65. molecule, 66. complexity, 67. suffers, 68. necessarily, 69. configure, 70. confront, 71. synapses

79.	Overall	_ are approximately 400x200mm.
n.	a measurable exte	ent of a particular kind, such as width, height, or length
80.	Shakespeare's outp	ut of poetry was
adj	extremely large or	great
81.	We are developing	plant-derived to reduce environmental impact.
n.	•	osed of macromolecules (= large groups of atoms) made r and simpler molecules
82.	The train has to	rigorous safety checks.
v.	to go through som	ething unpleasant or that involves a change
83.	How can you	that the earth is a sphere?
v.	to display somethi	ng or give an exhibition to an interested audience
84.	I need to buy a pacl	c of for my baby before we run out.
n.	•	piece of material worn by babies and young children around ween their legs to catch urine and feces
85.	Government worker	s cannot to political campaigns.
ν.	to give something together with othe	especially money or goods, to provide or achieve something reople
86.	He is familiar with _	and biology.
n.	the branch of the and their propertie	natural sciences dealing with the composition of substances and reactions
87.	The package was a	shape, which made it easier to stack on the shelf.
adj	•	of a cube or being of three dimensions; measured in units ower of a linear unit
		ions, 80. enormous, 81. polymers, 82. undergo, 83. rs, 85. contribute, 86. chemistry, 87. cubic

ANSWERS: 96. spatial, 97. pulse, 98. grains, 99. expansion, 100. rendition, 101. blob, 102. governing, 103. arrange

117. The _____ of the car allowed it to glide smoothly through the air.

n. the study of the motion of air, particularly its interaction with solid objects moving through it, such as aircraft or cars

118. He tried to _____ a bad reputation and win the election.

v. to succeed in controlling or dealing with something, such as a problem or difficulty; to defeat or overwhelm someone

ANSWERS: 111. teaspoon, 112. obscured, 113. large-scale, 114. extracting, 115. handle, 116. balloon, 117. aerodynamics, 118. overcome

119.	His jokes made her angry.
adj.	being in an unrefined or natural state; (noun) the unprocessed form of oil
120.	Several cities are experiencing high unemployment rates.
adv.	in a way that is very difficult to believe; exceedingly or extremely
121.	The mathematician pioneered fractal
n.	the area of pure mathematics that deals with the points, lines, curves, and surfaces
122.	She was struggling to make a between two job offers.
n.	the act or process of making up someone's mind about something; a choice or judgment reached after considering options
123.	Do you know the of the population in Hong Kong?
n.	the quality of compactness of a substance
124.	We need to the aspect of his personality from the part of his competence when making an investment decision.
<i>v</i> .	to force, take, or pull apart; mark as different
125.	weight is the sum of all the atoms.
adj.	of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds)
126.	The will repair my telephone tomorrow morning.
n.	a person whose job is designing, building, or maintaining something such as machines, structures, or software
	SWERS: 119. crude, 120. incredibly, 121. geometry, 122. decision, 123. density, separate, 125. Molecular, 126. engineer

ANSWERS: 127. particles, 128. constellation, 129. distance, 130. neuron, 131. microscope, 132. peer, 133. glowing, 134. chemical

135.	The entire mountain is covered in rainforest.
adj.	containing a large number of people or something with little space between them
136.	The disease can spread quickly and potentially cause a global pandemic.
adj.	spreading very quickly, and often aggressively, and difficult to stop
137.	Necessity is the mother of
n.	the creation of a new device or process resulting from study and experimentation; the act of inventing
138.	The phenomenon is at optical wavelengths.
adj.	impossible or nearly impossible to see
139.	The of water is called ice.
adj.	hard or firm; characterized by good substantial quality
140.	The biology teacher showed the students a frog so they could examine its anatomy.
n.	an individual example or sample of something, typically used to represent a larger group or category
141.	We will to find a solution to the problem as quickly as possible.
ν.	to make an earnest attempt or effort; to strive or work hard towards a goal or objective
142.	He back in time to the soccer game.
<i>v</i> .	to move along very quickly; (noun) the act of rising upward into the air
	SWERS: 135. dense, 136. invasive, 137. invention, 138. invisible, 139. solid-state specimen, 141. endeavor, 142. zoomed

ANSWERS: 143. anchor, 144. configuration, 145. aim, 146. brain, 147. disease, 148. disorder, 149. atom, 150. monomer

polymer, which is the basic building block of larger molecular structures

ANSWERS: 151. breast, 152. darn, 153. systematic