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Li Wei Tan: The fascinating science of bubbles, from soap to champagne | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

seine

n. a large fishing net that hangs vertically in the water with floats at the top and weights at the bottom used to enclose and catch fish

synonym : net, fishing net, trawl

(1) haul a **seine**, (2) beach **seine**

The fishermen used a purse **seine** to catch fish in the river.

giant

adj. enormous; much bigger or more important than similar items usually are

synonym : big, gigantic, huge

(1) **giant** trees, (2) **giant** tech company

The **giant** jets gradually dominate the world's airlines.

bubble

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

synonym : blob, balloon, mania

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

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

riverbank

n. the land along the edge of a river, often used for recreation or agricultural purposes

synonym: riverside, embankment

(1) **riverbank** erosion, (2) walk along the **riverbank**

We enjoyed a picnic on the **riverbank** and watched the boats go by.

surround

v. to be all around something or somebody

synonym: encircle, encompass, envelop

(1) **surround** a town, (2) a stone wall **surrounds** the palace

On three sides, mountains **surround** the settlement.

visible

adj. capable of being seen; or open to easy view

synonym: clear, observable, seeable

(1) **visible** stars, (2) **visible** by X-ray

My home is easily **visible** from the shore.

donation

n. a voluntary gift of money, service, or ideas that are given to a person or an organization, or the act of giving them

synonym: contribution, gift, subsidy

(1) make a **donation**, (2) political **donation**

He made a generous **donation** to the charity.

stick

v. to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material

synonym: pierce, adhere, stay

(1) **stick** a key in a lock, (2) fire **stick**

You **stick** a bill in the change machine, and the coins pop out.

string

n. long, thin material used for tying things together, composed of several twisted threads

synonym: line, wire, rope

(1) retie the **string** and make it strong, (2) tense piano **strings**

She wore a **string** of pearls around her neck.

euro

n. the official currency of most European Union countries

(1) the value of the **Euro**, (2) **Euro** crises

Some countries may leave the **Euro**.

mixture

n. a combination of different elements, substances, or entities, usually in non-uniform proportions, resulting in a homogeneous or heterogeneous blend of physical or chemical properties

synonym: blend, amalgam, concoction

(1) **mixture** of emotions, (2) perfect **mixture**

The paint was a **mixture** of different pigments to achieve the desired color.

stunning

adj. causing a strong emotional reaction of admiration, surprise, or shock due to its beauty, rarity, or excellence

synonym: beautiful, breathtaking, magnificent

(1) **stunning** beauty, (2) **stunning** disclosure

The **stunning** sunset took everyone's breath away.

fascinating

adj. extremely interesting

synonym: alluring, intriguing, captivating

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

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

eliminate

v. to remove or get rid of someone or something

synonym: wipe out, destroy, eradicate

(1) **eliminate** contestants, (2) **eliminate** sexual barriers

We can **eliminate** this possibility from those consumptions.

microscopic

adj. tiny; exceedingly precise and detail-oriented; of or used in microscopy

synonym: infinitesimal, tiny, atomic

(1) **microscopic** inquiry, (2) **microscopic** analysis

Inspectors noticed **microscopic** cracks in the submarine's hull.

substance

n. the real physical material of which a thing or person consist; the most important or main part of some idea or experience; an illegal drug

synonym: essence, core, material

(1) an explosive **substance**, (2) **substance** abuse problem

The **substance** of the argument was well-presented.

constantly

adv. all the time

synonym: continuously, always, frequently

(1) a **constantly** innovative enterprise, (2) a **constantly** varying mind

The mobile application industry is **constantly** changing.

interaction

n. the act of connecting with someone, mainly when working, playing, or spending time with them

synonym: dealings, exchange, relations

(1) the **interaction** between man and his environment,

(2) **interaction** among human beings

The **interaction** of the two groups is good for brainstorming.

molecule

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

synonym: particle, element, atom

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

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

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.

hydrogen

n. the chemical element that is the lightest gas is colorless, odorless, tasteless, and combines with oxygen to form water

(1) **hydrogen** gas, (2) heavy **hydrogen**

The **hydrogen** and the oxygen react and then form water.

oxygen

n. the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live

(1) the hydrogen binds the **oxygen**, (2) lack of **oxygen**

The passenger grabbed for the **oxygen** mask.

droplet

n. a small drop of liquid

synonym: bead, drip, dewdrop

(1) **droplet** size, (2) **droplet** formation

A single **droplet** of water can reflect the entire world upside down.

curve

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

synonym: bend, arc, turn

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

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

inward

adj. directed or facing towards the inside; inside or inward-looking

synonym: internal, introspective, interior

(1) **inward** peace, (2) **inward** cargo

The **inward** motion of the tide was gradually slowing down.

hemisphere

n. half of the terrestrial globe; half of a sphere

(1) northern **hemisphere**, (2) cerebral **hemisphere**

This weather pattern is unique to the southern **hemisphere**.

elastic

adj. flexible, resilient, or adaptable; (noun) a stretchy material or band that can be stretched and then returned to its original shape; something that is flexible and adaptable

synonym : stretchy, flexible, resilient

(1) **elastic** body, (2) **elastic** waistband

The skin of a snake is remarkably **elastic**, allowing it to slither through tight spaces.

elasticity

n. the ability of a material to return to its original shape after being stretched or compressed; flexibility; adaptability to change

synonym : flexibility, pliability, suppleness

(1) **elasticity** coefficient, (2) skin **elasticity**

The **elasticity** of the rubber band allowed it to stretch without breaking.

mathematics

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

synonym : arithmetic, calculation, calculus

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

He has a flair for **mathematics**.

relentless

adj. persistent and determined; continuing despite difficulties or setbacks

synonym : unyielding, tireless, unremitting

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

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

achieve

v. to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do

synonym : accomplish, attain, reach

(1) **achieve** success, (2) **achieve** milestones

I will work hard to **achieve** my goals and realize my dreams.

geometry

n. 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**.

instance

n. a particular example or single occurrence of something
synonym: example, sample, illustration

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

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

sphere

n. a round object or geometric shape that is three-dimensional and symmetrical around a central point; a particular aspect or scope of life or activity

synonym: ball, globe, scope

(1) **sphere** of influence, (2) business **sphere**

The **sphere** of the earth is divided into several layers including the crust, mantle, and core.

volume

n. 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.

magical

adj. produced by or containing supernatural powers

synonym: enchanting, occult, supernatural

(1) **magical** place, (2) **magical** powers

When I was a child, my mother often cast **magical** spells to ease my pain whenever I was injured.

cube

n. a three-dimensional shape with six square faces that are all equal in size; (of mathematics) the result of multiplying the number by itself three times

synonym: block, square, cell

(1) **cube** root, (2) ice **cube**

I cut the cheese into small **cubes** for the salad.

arrangement

n. a plan or preparation for the future event; the action or process of placing things in a particular order

synonym: placement, configuration, account

(1) **arrangement** of the furniture, (2) **arrangement** committee

As a first **arrangement**, we agreed to meet the following Friday.

prop

n. a piece of wood, metal, etc., placed beneath or against something to support it or keep it in position; a system, institution, or person that gives help or support to someone or something

synonym: support, buttress, column

(1) emotional **prop**, (2) **prop** stick

We have finally lost our last **prop**.

represent

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

synonym: depict, express, describe

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

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

dip

v. to put something into a liquid for a short time and take it out again

synonym: dunk, dive, plunge

(1) **dip** a pen in ink, (2) **dip** a chip in the sauce

Please **dip** up a bucketful of water from the well.

minimize

v. to make something, especially something bad, small or less serious

synonym: diminish, mitigate, belittle

(1) **minimize** a loss, (2) way to **minimize** conflict

I bought a gadget before my trip to help **minimize** stress during the flight.

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.

perspective

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

synonym: viewpoint, standpoint, outlook

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

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

spot

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

synonym: dot, mark, place

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

This remote **spot** is rarely visited.

penguin

n. a flightless sea bird that is found in the Southern Hemisphere and is known for its distinctive black and white coloring and its upright, waddling gait

(1) Adelie **penguin**, (2) **penguin** habitat

We took a boat tour to witness the magnificent **penguin** colony along the rugged coastline.

cove

n. a small sheltered bay or inlet, typically rocky and steep-sided; a small strip of land jutting into the sea

synonym: inlet, bay, indentation

(1) **cove** beach, (2) rocky **cove**

The kayakers paddled into the little **cove** to explore its hidden beauty.

trail

n. a path or track roughly through a countryside, mountain, or forest area, often made or used for a particular

purpose; (verb) to lag or linger behind

synonym: footpath, track, course

(1) a warm **trail**, (2) follow the **trail**

The storm left a **trail** of destruction behind it.

evolve

v. to develop gradually, or to cause the development of something or someone gradually

synonym: develop, mature, grow

(1) **evolve**, (2) **evolve** over the past decade

Eyeless fish **evolved** in dark caves.

ingenious

adj. showing inventiveness and ability or skill

synonym: creative, innovative, inventive

(1) **ingenious** device, (2) **ingenious** idea

I always look forward to reading his stories since they're so **ingenious**.

utilize

v. to use something for a practical purpose in an effective way

synonym: employ, use, operate

(1) **utilize** a different approach, (2) **utilize** a catheter

The cook **utilized** the leftover oxtail to make soup.

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?

emperor

n. the male ruler of an empire

synonym: ruler, king, dictator

(1) **emperor** of Rome, (2) former **emperor**

The **Emperor** once lived in the vast palace.

dive

v. to jump into the water with your head and arms going in first, or to move down to a deeper level underwater

synonym: dip, leap, plunge

(1) **dive** into anime communities, (2) **dive** off a cliff
The sperm whale can **dive** to 1,000 meters.

progressive

adj. relating to or supporting development or advancement, especially social or political one

synonym: advanced, forward-thinking, modern

(1) **progressive** taxation, (2) **progressive** development
The **progressive** approach to education emphasizes hands-on learning and student-centered classrooms.

release

v. to set free or allow to escape from confinement

synonym: free, let go, discharge

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

surrounding

adj. that is near or around, or closely encircling something

synonym: circumferent, encircling, neighboring

(1) **surrounding** areas, (2) a fence **surrounding** a castle
The **surrounding** mountains make the city difficult to be invaded.

feat

n. 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.

manufacture

v. to make goods in large numbers, usually in a factory using machines

synonym: create, fabricate, assemble

(1) **manufacture** an enzyme, (2) **manufacture** a product
The majority of synthetic vitamins are **manufactured** from oil.

transport

n. a system for moving people or products from one location to another using automobiles, roads, and so on
synonym: shipment, transit, conveyance

(1) **transport** facilities, (2) access to public **transport**

Enhanced rail **transportation** is crucial for our business.

recreation

n. the activity that renews your health and spirits by enjoyment and relaxation; the act or process of making something that existed in the past exists or seems to exist again in a different time or place

synonym: amusement, entertainment, refreshment

(1) outdoor **recreation**, (2) **recreation** of the homeland

Basketball is their usual **recreation** after school.

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.

lubricate

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

synonym: grease, oil, make slippery

(1) **lubricate** the economy, (2) **lubricate** the hinges with oil

The mechanic **lubricated** the gears to prevent them from grinding.

inspire

v. to make somebody fill with the desire, confidence, or enthusiasm, especially to do something creative

synonym: boost, encourage, enlighten

(1) **inspire** a feeling of curiosity, (2) **inspire** him to write a novel

The unique style of this martial arts **inspired** many action film

producers.

redistribute

v. to share something among people in a different way
synonym: rearrange, readjust, reconstruct

(1) **redistribute** income fairly, (2) **redistribute** data

The general **redistributed** the troops more strategically.

resistance

n. the act of defending oneself from an aggressor or refusing to accept something

synonym: opposition, antagonism, defiance

(1) **resistance** movement, (2) **resistance** to insulin

The bill to increase the consumption tax had passed despite much **resistance** from the public.

consumption

n. the amount used or eaten; the act of using up a resource such as energy, food, or materials

synonym: usage, uptake, utilization

(1) average fuel **consumption**, (2) the **consumption** of food

In our country, water **consumption** usually decreases during the winter.

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.

invasive

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.

delivery

n. the act of taking or sending something to a destination; the bringing of a baby during childbirth

synonym : sending, transporting, bringing

(1) an easy **delivery**, (2) special **delivery**

The **delivery** truck arrived with the packages.

specific

adj. clearly defined or particular to a certain thing or situation; distinct, explicit, and precise

synonym : particular, definite, distinct

(1) **specific** instructions, (2) industry- **specific** regulations

The scientist conducted a study that provided **specific** details about the species' behavior.

magnetic

adj. having the properties of attracting or repelling certain materials containing iron or steel

synonym : attractive, drawing, hypnotic

(1) **magnetic** field, (2) a **magnetic** tape

The **magnetic** force of the earth keeps our planet spinning.

inject

v. to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)

synonym : shoot, infiltrate, insinuate

(1) **inject** under the skin, (2) **inject** a personal opinion into a debate

Let's try to **inject** a bit of enthusiasm into your performance.

bloodstream

n. the blood flowing through the body

(1) **bloodstream** in an artery, (2) **bloodstream** to the brain

Cancer cells are often carried throughout the body by the **bloodstream**.

magnet

n. an object or substance that can attract certain materials, such as iron or steel

synonym : magnetite, lodestone, attracting substance

(1) **magnet** attraction, (2) permanent **magnet**

The MRI machine uses **magnets** to produce images of the body's internal organs.

ultrasound

n. higher frequency sound than humans can hear

(1) **ultrasound** meter, (2) **ultrasound** scan

An **ultrasound** scan showed that the baby was a girl.

mention

v. to speak or write about something or someone briefly

synonym: reference, allude, cite

(1) **mention** name, (2) **mention** in a report

I **mentioned** to him that I had seen his sister at the grocery store earlier that day.

organic

adj. of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals

synonym: biological

(1) **organic** soils, (2) eat **organic** food

The kidney is an **organic** component of the body.

photovoltaics

n. a branch of technology that involves the conversion of sunlight into electricity using solar cells or other photoelectric devices; the generation of electricity directly from sunlight, typically using solar panels

synonym: solar cells, solar power

(1) **photovoltaics** recycling initiatives, (2) **photovoltaics** system

The development of thin-film **photovoltaics** has allowed for a wider range of applications in building design.

emit

v. to give off or send out something such as light, heat, sound, gas, etc.

synonym: give off, radiate, expel

(1) **emit** a gamma ray, (2) **emit** air pollution

During the unloading, the container box **emits** a clicking sound.

diode

n. an electronic component that conducts current primarily in one direction and typically has two electrodes or terminals

synonym : rectifier, valve, semiconductor

(1) light-emitting **diode**, (2) semiconductor **diode**

The **diode** in the circuit prevented the current from flowing in the wrong direction.

formulate

v. to create or develop a plan, system, theory, or formula; to express an idea or concept in a clear, precise manner

synonym : devise, develop, articulate

(1) **formulate** a response, (2) **formulate** idea

The scientists worked together to **formulate** a plan for their research project.

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.

preparation

n. the activity of getting ready for something or making something ready

synonym : practice, trial, rehearsal

(1) a **preparation** program, (2) the **preparation** of meals

He helped me with the **preparation** of this book.

ingredient

n. one of the things used to make something, especially one of the foods used to make a particular dish

synonym : element, component

(1) secret **ingredients**, (2) compound the **ingredients**

Greed is the primary **ingredient** in the making of criminals.

solvent

adj. capable of dissolving other substances; having sufficient money to pay all outstanding debts; (noun) a liquid substance capable of dissolving other substances

synonym : (noun) solution, (noun) dissolver

(1) a **solvent** liquid, (2) chemical **solvents**

The company was able to remain **solvent** throughout the economic downturn.

additive

n. a substance added to something in small amounts, especially food, to improve or preserve it

synonym : preservative, supplement

(1) food **additive**, (2) deleterious chemical **additives**

The gasoline **additive** had leaked from the container.

unavoidable

adj. impossible to avoid or evade; inevitable

synonym : inevitable, inescapable, certain

(1) an **unavoidable** accident, (2) under **unavoidable** circumstances

There are now fears that war is **unavoidable**.

trap

n. a piece of equipment or hole for catching animals or people; (verb) to catch animals or people and prevent them from escaping

synonym : catch, snare, pinfall

(1) set a **trap**, (2) **trap** an animal

The enemy fell right into the **trap**.

vary

v. to become different in terms of size, shape, etc.

synonym : alter, contrast, differ

(1) **vary** according to the age, (2) **vary** directly with the price

Maximum heart rates **vary** a lot for each individual.

micron

n. a unit of measurement equal to one-millionth of a meter, used for measuring the size of particles and microorganisms

synonym : micrometer

(1) **micron** measurements, (2) **micron** imaging

The width of a single human hair is around 100 **microns**.

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.

moisture

n. small amounts of liquid, especially water, that are present in or absorbed by a substance

synonym: dampness, humidity, wetness

(1) **moisture** level, (2) lot of **moisture**

My hair looks greasy because there is too much **moisture** in the air.

display

v. to exhibit or show something to others, often to attract attention or demonstrate its features, properties, or value

synonym: show, exhibit, present

(1) **display** merchandise, (2) **display** artwork

We need to **display** our products in an attractive way to attract customers.

smartphone

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

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

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

suppose

v. to think that something is likely to be actual or possible

synonym: guess, assume, presume

(1) **suppose** you're right, (2) **suppose** beforehand

What do you **suppose** the culprit's motive was?

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.

pixel

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

synonym: dot, point, picture element

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

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

cooperative

adj. involving doing something jointly or working with others to achieve a common goal

synonym: harmonious, collegial, helpful

(1) **cooperative** savings, (2) fishing **cooperative**

We appreciate your **cooperative** efforts.

tube

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

synonym: pipe, hose, duct

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

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

vacuum

n. a space empty of matter; a device or tool used for cleaning or removing debris by creating suction

synonym: void, emptiness, gap

(1) **vacuum** cleaner, (2) **vacuum** packing

Please use the **vacuum** to clean up the mess on the floor.

chamber

n. a large room used for a formal, public, or particular purpose; one of the parts of a parliament

synonym: association, cabin, legislature

(1) a gas **chamber**, (2) the lower **chamber**

The surgeon made an incision in the **chambers** of the patient's heart.

squeeze

v. to apply pressure from two or more sides; to hold someone or something tightly in your arms, usually with fondness

synonym : compress, crush, clamp

(1) **squeeze** a lemon, (2) **squeeze** a confession

She **squeezed** the toothpaste tube from the middle to get the last bit out.

celebrate

v. to acknowledge a memorable or good day or event with a social gathering or enjoyable activity

synonym : praise, glorify, honor

(1) **celebrate** his election, (2) **celebrate** Christmas

He **celebrated** the 10th anniversary of his tenure.

champagne

n. a type of sparkling wine produced in the Champagne region of France, or any similar wine produced elsewhere

synonym : sparkling wine, prosecco, cava

(1) **champagne** toast, (2) **champagne** celebration

They opened a bottle of **champagne** to celebrate their success.

carbon

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

(1) **carbon** dioxide, (2) **carbon** emission

Trees absorb **carbon** dioxide and give off oxygen.

oxide

n. a chemical compound that contains at least one oxygen atom and one other element

(1) silver **oxide**, (2) combined **oxide**

The blood's red coloring comes from iron **oxide**.

jet

n. a type of aircraft that is powered by one or more jet engines and can fly at high speeds, typically over long distances

synonym : plane, aircraft, flier

(1) private **jet**, (2) commercial **jet**

The **jet** flew over the ocean at high speed, reaching its destination in hours.

aroma

n. a distinctive, usually pleasant smell, often of a specific food, plant, or object

synonym: fragrance, scent, smell

(1) **aroma** therapy, (2) coffee **aroma**

The **aroma** of freshly baked bread filled the kitchen.

intensify

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

synonym: amplify, boost, strengthen

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

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

flavor

n. the taste sensation produced by a substance in the mouth

synonym: taste, savor, essence

(1) a delicate **flavor**, (2) **flavor** enhancer

The **flavor** of the coffee was rich and full-bodied.

Session 2: Spelling

1. in____e him to write a novel
v. to make somebody fill with the desire, confidence, or enthusiasm, especially to do something creative
2. el____c body
adj. flexible, resilient, or adaptable; (noun) a stretchy material or band that can be stretched and then returned to its original shape; something that is flexible and adaptable
3. perfect mi____e
n. a combination of different elements, substances, or entities, usually in non-uniform proportions, resulting in a homogeneous or heterogeneous blend of physical or chemical properties
4. driving di____ce
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
5. vo____e of work
n. the amount of space occupied by an object or substance; the magnitude of sound
6. an una____le accident
adj. impossible to avoid or evade; inevitable
7. ce____te his election
v. to acknowledge a memorable or good day or event with a social gathering or enjoyable activity
8. e__t air pollution
v. to give off or send out something such as light, heat, sound, gas, etc.

ANSWERS: 1. inspire, 2. elastic, 3. mixture, 4. distance, 5. volume, 6. unavoidable, 7. celebrate, 8. emit

20. ma_____l place *adj.* produced by or containing supernatural powers
21. fishing coo_____ve *adj.* involving doing something jointly or working with others to achieve a common goal
22. secret ing_____nts *n.* one of the things used to make something, especially one of the foods used to make a particular dish
23. high vo___e *n.* the amount of space occupied by an object or substance; the magnitude of sound
24. special de_____ry *n.* the act of taking or sending something to a destination; the bringing of a baby during childbirth
25. the value of the E__o *n.* the official currency of most European Union countries
26. rec_____on of the homeland *n.* the activity that renews your health and spirits by enjoyment and relaxation; the act or process of making something that existed in the past exists or seems to exist again in a different time or place
27. vi_____e by X-ray *adj.* capable of being seen; or open to easy view
28. c__e root *n.* a three-dimensional shape with six square faces that are all equal in size; (of mathematics) the result of multiplying the number by itself three times
29. ult_____nd meter *n.* higher frequency sound than humans can hear

ANSWERS: 20. magical, 21. cooperative, 22. ingredient, 23. volume, 24. delivery, 25. euro, 26. recreation, 27. visible, 28. cube, 29. ultrasound

30. a pre_____on program *n.* the activity of getting ready for something or making something ready
31. c__e beach *n.* a small sheltered bay or inlet, typically rocky and steep-sided; a small strip of land jutting into the sea
32. the hydrogen binds the ox___n *n.* the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live
33. ce_____te Christmas *v.* to acknowledge a memorable or good day or event with a social gathering or enjoyable activity
34. su_____e beforehand *v.* to think that something is likely to be actual or possible
35. face rel_____ss pressure *adj.* persistent and determined; continuing despite difficulties or setbacks
36. social di_____ce *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
37. de_____p a strategy *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
38. make a do_____on *n.* a voluntary gift of money, service, or ideas that are given to a person or an organization, or the act of giving them

ANSWERS: 30. preparation, 31. cove, 32. oxygen, 33. celebrate, 34. suppose, 35. relentless, 36. distance, 37. develop, 38. donation

39. set a t__p *n.* a piece of equipment or hole for catching animals or people; (verb) to catch animals or people and prevent them from escaping
40. things at the na_____le *adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
41. rocky c__e *n.* a small sheltered bay or inlet, typically rocky and steep-sided; a small strip of land jutting into the sea
42. na_____le device *adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
43. a capillary t__e *n.* a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape
44. gi__t tech company *adj.* enormous; much bigger or more important than similar items usually are
45. or_____c soils *adj.* of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals
46. in_____us device *adj.* showing inventiveness and ability or skill
47. me_____n name *v.* to speak or write about something or someone briefly
48. ev___e *v.* to develop gradually, or to cause the development of something or someone gradually

ANSWERS: 39. trap, 40. nanoscale, 41. cove, 42. nanoscale, 43. tube, 44. giant, 45. organic, 46. ingenious, 47. mention, 48. evolve

49. rel_____ss attack *adj.* persistent and determined; continuing despite difficulties or setbacks
50. bu___e in the champagne glass *n.* a thin, round, and often transparent mass of gas that is surrounded by a thin layer of liquid; a state of economic or social prosperity that is unsustainable and eventually collapses
51. the characters that re_____nt numbers *v.* to speak, act, or be present on behalf of another person or group; to form or constitute
52. dr_____t size *n.* a small drop of liquid
53. ev___e over the past decade *v.* to develop gradually, or to cause the development of something or someone gradually
54. red_____ute data *v.* to share something among people in a different way
55. vi_____e stars *adj.* capable of being seen; or open to easy view
56. sma_____ne addict *n.* a mobile phone that functions as a computer and connects to the Internet
57. a so_____t liquid *adj.* capable of dissolving other substances; having sufficient money to pay all outstanding debts; (noun) a liquid substance capable of dissolving other substances
58. st_____ng beauty *adj.* causing a strong emotional reaction of admiration, surprise, or shock due to its beauty, rarity, or excellence
59. coffee ar__a *n.* a distinctive, usually pleasant smell, often of a specific food, plant, or object

ANSWERS: 49. relentless, 50. bubble, 51. represent, 52. droplet, 53. evolve, 54. redistribute, 55. visible, 56. smartphone, 57. solvent, 58. stunning, 59. aroma

60. re_____nt by a diagram *v.* to speak, act, or be present on behalf of another person or group; to form or constitute
61. intellectual f__t *n.* a notable or impressive achievement, especially one that requires great skill or bravery
62. mat_____cs competition *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
63. former em_____r *n.* the male ruler of an empire
64. va___m packing *n.* a space empty of matter; a device or tool used for cleaning or removing debris by creating suction
65. ma_____l powers *adj.* produced by or containing supernatural powers
66. industry-sp_____ic regulations *adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
67. oxygen a__m *n.* the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus
68. business sp___e *n.* a round object or geometric shape that is three-dimensional and symmetrical around a central point; a particular aspect or scope of life or activity
69. cerebral hem_____re *n.* half of the terrestrial globe; half of a sphere
70. notable in_____ce *n.* a particular example or single occurrence of something

ANSWERS: 60. represent, 61. feat, 62. mathematics, 63. emperor, 64. vacuum, 65. magical, 66. specific, 67. atom, 68. sphere, 69. hemisphere, 70. instance

71. tense piano st___gs *n.* long, thin material used for tying things together, composed of several twisted threads
72. t__p an animal *n.* a piece of equipment or hole for catching animals or people; (verb) to catch animals or people and prevent them from escaping
73. dr____t formation *n.* a small drop of liquid
74. coo____ve savings *adj.* involving doing something jointly or working with others to achieve a common goal
75. su____nd a town *v.* to be all around something or somebody
76. compound the ing____nts *n.* one of the things used to make something, especially one of the foods used to make a particular dish
77. yield cu__e *n.* a bend or angle in a line or surface that deviates from a straight or flat path; a gradual or smooth change in direction or shape
78. di____y merchandise *v.* to exhibit or show something to others, often to attract attention or demonstrate its features, properties, or value
79. red____ute income fairly *v.* to share something among people in a different way
80. ult____nd scan *n.* higher frequency sound than humans can hear
81. in____fy a good relationship *v.* to increase or make something increase in extent or strength

ANSWERS: 71. string, 72. trap, 73. droplet, 74. cooperative, 75. surround, 76. ingredient, 77. curve, 78. display, 79. redistribute, 80. ultrasound, 81. intensify

82. mi___n measurements *n.* a unit of measurement equal to one-millionth of a meter, used for measuring the size of particles and microorganisms
83. em____r of Rome *n.* the male ruler of an empire
84. sq____e a confession *v.* to apply pressure from two or more sides; to hold someone or something tightly in your arms, usually with fondness
85. the per____ve of the battle *n.* a confident attitude toward something; a particular style of thinking about something
86. ac____e success *v.* to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do
87. re____e a prisoner *v.* to set free or allow to escape from confinement
88. ri____nk erosion *n.* the land along the edge of a river, often used for recreation or agricultural purposes
89. d__e off a cliff *v.* to jump into the water with your head and arms going in first, or to move down to a deeper level underwater
90. e__t a gamma ray *v.* to give off or send out something such as light, heat, sound, gas, etc.
91. an explosive su____ce *n.* the real physical material of which a thing or person consist; the most important or main part of some idea or experience; an illegal drug

ANSWERS: 82. micron, 83. emperor, 84. squeeze, 85. perspective, 86. achieve, 87. release, 88. riverbank, 89. dive, 90. emit, 91. substance

100. me_____al chemistry *adj.* of or relating to the treatment or cure of disease
101. emotional p__p *n.* a piece of wood, metal, etc., placed beneath or against something to support it or keep it in position; a system, institution, or person that gives help or support to someone or something
102. Euclidean ge_____ry *n.* the area of pure mathematics that deals with the points, lines, curves, and surfaces
103. pho_____ics recycling initiatives *n.* a branch of technology that involves the conversion of sunlight into electricity using solar cells or other photoelectric devices; the generation of electricity directly from sunlight, typically using solar panels
104. a good grounding in mat_____cs *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
105. a con_____ly varying mind *adv.* all the time
106. int_____on among human beings *n.* the act of connecting with someone, mainly when working, playing, or spending time with them
107. ar__a therapy *n.* a distinctive, usually pleasant smell, often of a specific food, plant, or object
108. in___d peace *adj.* directed or facing towards the inside; inside or inward-looking
109. res_____ce to insulin *n.* the act of defending oneself from an aggressor or refusing to accept something

ANSWERS: 100. medicinal, 101. prop, 102. geometry, 103. photovoltaics, 104. mathematics, 105. constantly, 106. interaction, 107. aroma, 108. inward, 109. resistance

110. the lower ch____r *n.* a large room used for a formal, public, or particular purpose; one of the parts of a parliament
111. for in____ce *n.* a particular example or single occurrence of something
112. the pre____on of meals *n.* the activity of getting ready for something or making something ready
113. ab____b a shock *v.* to take in a fluid or other substance gradually
114. ela____ty coefficient *n.* the ability of a material to return to its original shape after being stretched or compressed; flexibility; adaptability to change
115. fo____te a response *v.* to create or develop a plan, system, theory, or formula; to express an idea or concept in a clear, precise manner
116. an easy de____ry *n.* the act of taking or sending something to a destination; the bringing of a baby during childbirth
117. sma____ne app developer *n.* a mobile phone that functions as a computer and connects to the Internet
118. sp____ic instructions *adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
119. blo____am in an artery *n.* the blood flowing through the body
120. lu____te the economy *v.* to apply a substance, such as oil or grease, to reduce friction or wear on a surface

ANSWERS: 110. chamber, 111. instance, 112. preparation, 113. absorb, 114. elasticity, 115. formulate, 116. delivery, 117. smartphone, 118. specific, 119. bloodstream, 120. lubricate

121. private j_t *n.* a type of aircraft that is powered by one or more jet engines and can fly at high speeds, typically over long distances
122. pro _____ve taxation *adj.* relating to or supporting development or advancement, especially social or political one
123. heavy hy_____en *n.* the chemical element that is the lightest gas is colorless, odorless, tasteless, and combines with oxygen to form water
124. outdoor rec_____on *n.* the activity that renews your health and spirits by enjoyment and relaxation; the act or process of making something that existed in the past exists or seems to exist again in a different time or place
125. su_____e you're right *v.* to think that something is likely to be actual or possible
126. d__e into anime communities *v.* to jump into the water with your head and arms going in first, or to move down to a deeper level underwater
127. neutral hydrogen a__ms *n.* the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus
128. the con_____on of food *n.* the amount used or eaten; the act of using up a resource such as energy, food, or materials
129. a glass t__e *n.* a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape

ANSWERS: 121. jet, 122. progressive, 123. hydrogen, 124. recreation, 125. suppose, 126. dive, 127. atom, 128. consumption, 129. tube

130. mo____le behavior *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
131. pho_____ics system *n.* a branch of technology that involves the conversion of sunlight into electricity using solar cells or other photoelectric devices; the generation of electricity directly from sunlight, typically using solar panels
132. blo_____am to the brain *n.* the blood flowing through the body
133. in____d cargo *adj.* directed or facing towards the inside; inside or inward-looking
134. walk along the ri_____nk *n.* the land along the edge of a river, often used for recreation or agricultural purposes
135. in____t a personal opinion into a debate *v.* to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)
136. in____ve species *adj.* spreading very quickly, and often aggressively, and difficult to stop
137. ac_____e milestones *v.* to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do
138. chemical so_____ts *adj.* capable of dissolving other substances; having sufficient money to pay all outstanding debts; (noun) a liquid substance capable of dissolving other substances

ANSWERS: 130. molecule, 131. photovoltaics, 132. bloodstream, 133. inward, 134. riverbank, 135. inject, 136. invasive, 137. achieve, 138. solvent

139. ca___n dioxide *n.* a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals
140. ca___n emission *n.* a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals
141. sur_____ng areas *adj.* that is near or around, or closely encircling something
142. ch_____ne toast *n.* a type of sparkling wine produced in the Champagne region of France, or any similar wine produced elsewhere
143. traditional me_____al *adj.* of or relating to the treatment or cure of disease
144. p__p stick *n.* a piece of wood, metal, etc., placed beneath or against something to support it or keep it in position; a system, institution, or person that gives help or support to someone or something
145. ab___b energy *v.* to take in a fluid or other substance gradually
146. va___m cleaner *n.* a space empty of matter; a device or tool used for cleaning or removing debris by creating suction
147. tr_____rt facilities *n.* a system for moving people or products from one location to another using automobiles, roads, and so on

ANSWERS: 139. carbon, 140. carbon, 141. surrounding, 142. champagne, 143. medicinal, 144. prop, 145. absorb, 146. vacuum, 147. transport

148. res_____ce movement *n.* the act of defending oneself from an aggressor or refusing to accept something
149. st_____ng disclosure *adj.* causing a strong emotional reaction of admiration, surprise, or shock due to its beauty, rarity, or excellence
150. deleterious chemical ad_____ves *n.* a substance added to something in small amounts, especially food, to improve or preserve it
151. northern hem_____re *n.* half of the terrestrial globe; half of a sphere
152. in_____fy diplomatic efforts *v.* to increase or make something increase in extent or strength
153. sp_____e of influence *n.* a round object or geometric shape that is three-dimensional and symmetrical around a central point; a particular aspect or scope of life or activity
154. a con_____ly innovative enterprise *adv.* all the time
155. de_____p a skill *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
156. in_____us idea *adj.* showing inventiveness and ability or skill
157. a gas ch_____r *n.* a large room used for a formal, public, or particular purpose; one of the parts of a parliament

ANSWERS: 148. resistance, 149. stunning, 150. additive, 151. hemisphere, 152. intensify, 153. sphere, 154. constantly, 155. develop, 156. ingenious, 157. chamber

158. pr____s improvement *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
159. el____c waistband *adj.* flexible, resilient, or adaptable; (noun) a stretchy material or band that can be stretched and then returned to its original shape; something that is flexible and adaptable
160. skin ela_____ty *n.* the ability of a material to return to its original shape after being stretched or compressed; flexibility; adaptability to change
161. haul a se__e *n.* a large fishing net that hangs vertically in the water with floats at the top and weights at the bottom used to enclose and catch fish
162. under una_____le circumstances *adj.* impossible to avoid or evade; inevitable
163. el_____te sexual barriers *v.* to remove or get rid of someone or something
164. ice c__e *n.* a three-dimensional shape with six square faces that are all equal in size; (of mathematics) the result of multiplying the number by itself three times
165. economic bu___e *n.* a thin, round, and often transparent mass of gas that is surrounded by a thin layer of liquid; a state of economic or social prosperity that is unsustainable and eventually collapses

ANSWERS: 158. process, 159. elastic, 160. elasticity, 161. seine, 162. unavoidable, 163. eliminate, 164. cube, 165. bubble

166. way to mi____ze conflict *v.* to make something, especially something bad, small or less serious
167. a per____ve view *n.* a confident attitude toward something; a particular style of thinking about something
168. fo____te idea *v.* to create or develop a plan, system, theory, or formula; to express an idea or concept in a clear, precise manner
169. completely fas____ng to me *adj.* extremely interesting
170. learning cu__e *n.* a bend or angle in a line or surface that deviates from a straight or flat path; a gradual or smooth change in direction or shape
171. arr____nt committee *n.* a plan or preparation for the future event; the action or process of placing things in a particular order
172. silver ox__e *n.* a chemical compound that contains at least one oxygen atom and one other element
173. ma____ic field *adj.* having the properties of attracting or repelling certain materials containing iron or steel
174. Adelie pe____n *n.* a flightless sea bird that is found in the Southern Hemisphere and is known for its distinctive black and white coloring and its upright, waddling gait
175. di____y artwork *v.* to exhibit or show something to others, often to attract attention or demonstrate its features, properties, or value

ANSWERS: 166. minimize, 167. perspective, 168. formulate, 169. fascinating, 170. curve, 171. arrangement, 172. oxide, 173. magnetic, 174. penguin, 175. display

176. man_____re an enzyme *v.* to make goods in large numbers, usually in a factory using machines
177. d_p a chip in the sauce *v.* to put something into a liquid for a short time and take it out again
178. sq_____e a lemon *v.* to apply pressure from two or more sides; to hold someone or something tightly in your arms, usually with fondness
179. food ad_____ve *n.* a substance added to something in small amounts, especially food, to improve or preserve it
180. f__t accomplishment *n.* a notable or impressive achievement, especially one that requires great skill or bravery
181. hy_____en gas *n.* the chemical element that is the lightest gas is colorless, odorless, tasteless, and combines with oxygen to form water
182. small mo_____les *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
183. ma_____t attraction *n.* an object or substance that can attract certain materials, such as iron or steel
184. the int_____on between man and his environment *n.* the act of connecting with someone, mainly when working, playing, or spending time with them
185. pe_____n habitat *n.* a flightless sea bird that is found in the Southern Hemisphere and is known for its distinctive black and white coloring and its upright, waddling gait

ANSWERS: 176. manufacture, 177. dip, 178. squeeze, 179. additive, 180. feat, 181. hydrogen, 182. molecule, 183. magnet, 184. interaction, 185. penguin

186. light-emitting di__e *n.* an electronic component that conducts current primarily in one direction and typically has two electrodes or terminals
187. ch_____ne celebration *n.* a type of sparkling wine produced in the Champagne region of France, or any similar wine produced elsewhere
188. in_____e a feeling of curiosity *v.* to make somebody fill with the desire, confidence, or enthusiasm, especially to do something creative
189. a s__t on his honor *n.* a particular location or place; a small round or roundish area, differing in color or feels from the surface around it
190. a delicate fl___r *n.* the taste sensation produced by a substance in the mouth
191. a stone wall su_____nds the palace *v.* to be all around something or somebody
192. commercial j_t *n.* a type of aircraft that is powered by one or more jet engines and can fly at high speeds, typically over long distances
193. mo_____re level *n.* small amounts of liquid, especially water, that are present in or absorbed by a substance
194. political do_____on *n.* a voluntary gift of money, service, or ideas that are given to a person or an organization, or the act of giving them
195. mi___n imaging *n.* a unit of measurement equal to one-millionth of a meter, used for measuring the size of particles and microorganisms

ANSWERS: 186. diode, 187. champagne, 188. inspire, 189. spot, 190. flavor, 191. surround, 192. jet, 193. moisture, 194. donation, 195. micron

196. re_____e CO2 into the air *v.* to set free or allow to escape from confinement
197. ut_____e a catheter *v.* to use something for a practical purpose in an effective way
198. a ma_____ic tape *adj.* having the properties of attracting or repelling certain materials containing iron or steel
199. su_____ce abuse problem *n.* the real physical material of which a thing or person consist; the most important or main part of some idea or experience; an illegal drug
200. lu_____te the hinges with oil *v.* to apply a substance, such as oil or grease, to reduce friction or wear on a surface
201. mi_____ze a loss *v.* to make something, especially something bad, small or less serious
202. a fence sur_____ng a castle *adj.* that is near or around, or closely encircling something
203. v__y directly with the price *v.* to become different in terms of size, shape, etc.
204. higher pixel de_____y *n.* the quality of compactness of a substance
205. arr_____nt of the furniture *n.* a plan or preparation for the future event; the action or process of placing things in a particular order
206. ut_____e a different approach *v.* to use something for a practical purpose in an effective way
207. gi__t trees *adj.* enormous; much bigger or more important than similar items usually are

ANSWERS: 196. release, 197. utilize, 198. magnetic, 199. substance, 200. lubricate, 201. minimize, 202. surrounding, 203. vary, 204. density, 205. arrangement, 206. utilize, 207. giant

208. color pi__ls *n.* the smallest unit of an image that can be displayed or manipulated electronically, typically a point of light on a computer screen or in a digital image
209. v__y according to the age *v.* to become different in terms of size, shape, etc.
210. population de____y *n.* the quality of compactness of a substance
211. me____n in a report *v.* to speak or write about something or someone briefly
212. pro____ve development *adj.* relating to or supporting development or advancement, especially social or political one
213. semiconductor di__e *n.* an electronic component that conducts current primarily in one direction and typically has two electrodes or terminals
214. pi__l density *n.* the smallest unit of an image that can be displayed or manipulated electronically, typically a point of light on a computer screen or in a digital image
215. lot of mo____re *n.* small amounts of liquid, especially water, that are present in or absorbed by a substance
216. decision-making pr____s *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

ANSWERS: 208. pixel, 209. vary, 210. density, 211. mention, 212. progressive, 213. diode, 214. pixel, 215. moisture, 216. process

217. average fuel con_____on *n.* the amount used or eaten; the act of using up a resource such as energy, food, or materials
218. fas_____ng story *adj.* extremely interesting
219. mi_____e of emotions *n.* a combination of different elements, substances, or entities, usually in non-uniform proportions, resulting in a homogeneous or heterogeneous blend of physical or chemical properties
220. el_____te contestants *v.* to remove or get rid of someone or something
221. retie the st____g and make it strong *n.* long, thin material used for tying things together, composed of several twisted threads
222. E__o crises *n.* the official currency of most European Union countries

ANSWERS: 217. consumption, 218. fascinating, 219. mixture, 220. eliminate, 221. string, 222. euro

Session 3: Fill in the Blanks

1. The _____ once lived in the vast palace.
n. the male ruler of an empire
2. He has a flair for _____.
n. the science dealing with the logic of quantities, shapes, spaces, and arrangement
3. We need to _____ our products in an attractive way to attract customers.
v. to exhibit or show something to others, often to attract attention or demonstrate its features, properties, or value
4. Maximum heart rates _____ a lot for each individual.
v. to become different in terms of size, shape, etc.
5. I will work hard to _____ my goals and realize my dreams.
v. to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do
6. The _____ jets gradually dominate the world's airlines.
adj. enormous; much bigger or more important than similar items usually are
7. We enjoyed a picnic on the _____ and watched the boats go by.
n. the land along the edge of a river, often used for recreation or agricultural purposes
8. Cancer cells are often carried throughout the body by the _____.
n. the blood flowing through the body

ANSWERS: 1. Emperor, 2. mathematics, 3. display, 4. vary, 5. achieve, 6. giant, 7. riverbank, 8. bloodstream

9. The cook _____ the leftover oxtail to make soup.
v. to use something for a practical purpose in an effective way
10. The animal rights group worked to _____ the dolphins back into the wild.
v. to set free or allow to escape from confinement
11. It is an incredible _____ to climb Mount Everest, the highest mountain in the world.
n. a notable or impressive achievement, especially one that requires great skill or bravery
12. The fishermen used a purse _____ to catch fish in the river.
n. a large fishing net that hangs vertically in the water with floats at the top and weights at the bottom used to enclose and catch fish
13. The scientists worked together to _____ a plan for their research project.
v. to create or develop a plan, system, theory, or formula; to express an idea or concept in a clear, precise manner
14. The museum houses a _____ collection of Celtic artifacts.
adj. extremely interesting
15. Some countries may leave the _____.
n. the official currency of most European Union countries
16. The _____ approach to education emphasizes hands-on learning and student-centered classrooms.
adj. relating to or supporting development or advancement, especially social or political one

ANSWERS: 9. utilized, 10. release, 11. feat, 12. seine, 13. formulate, 14. fascinating, 15. Euro, 16. progressive

17. The scientist conducted a study that provided _____ details about the species' behavior.

adj. clearly defined or particular to a certain thing or situation; distinct, explicit, and precise

18. This container has a _____ of 10 cubic meters.

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

19. We elected him to _____ us at the international conference.

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

20. The company was able to remain _____ throughout the economic downturn.

adj. capable of dissolving other substances; having sufficient money to pay all outstanding debts; (noun) a liquid substance capable of dissolving other substances

21. What do you _____ the culprit's motive was?

v. to think that something is likely to be actual or possible

22. The _____ of the two groups is good for brainstorming.

n. the act of connecting with someone, mainly when working, playing, or spending time with them

23. This weather pattern is unique to the southern _____.

n. half of the terrestrial globe; half of a sphere

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

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

ANSWERS: 17. specific, 18. volume, 19. represent, 20. solvent, 21. suppose, 22. interaction, 23. hemisphere, 24. curve

25. My home is easily _____ from the shore.

adj. capable of being seen; or open to easy view

26. The mobile application industry is _____ changing.

adv. all the time

27. A single _____ of water can reflect the entire world upside down.

n. a small drop of liquid

28. The kayakers paddled into the little _____ to explore its hidden beauty.

n. a small sheltered bay or inlet, typically rocky and steep-sided; a small strip of land jutting into the sea

29. The _____ for applying for a visa can be lengthy and complicated.

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

30. The passenger grabbed for the _____ mask.

n. the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live

31. The _____ disease can spread quickly and potentially cause a global pandemic.

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

32. You _____ a bill in the change machine, and the coins pop out.

v. to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material

ANSWERS: 25. visible, 26. constantly, 27. droplet, 28. cove, 29. process, 30. oxygen, 31. invasive, 32. stick

33. The development of thin-film _____ has allowed for a wider range of applications in building design.
- n.* a branch of technology that involves the conversion of sunlight into electricity using solar cells or other photoelectric devices; the generation of electricity directly from sunlight, typically using solar panels
34. She wore a _____ of pearls around her neck.
- n.* long, thin material used for tying things together, composed of several twisted threads
35. Let's try to _____ a bit of enthusiasm into your performance.
- v.* to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)
36. Greed is the primary _____ in the making of criminals.
- n.* one of the things used to make something, especially one of the foods used to make a particular dish
37. The _____ of the earth is divided into several layers including the crust, mantle, and core.
- n.* a round object or geometric shape that is three-dimensional and symmetrical around a central point; a particular aspect or scope of life or activity
38. Do you know the _____ of the population in Hong Kong?
- n.* the quality of compactness of a substance
39. The _____ of the coffee was rich and full-bodied.
- n.* the taste sensation produced by a substance in the mouth
40. This remote _____ is rarely visited.
- n.* a particular location or place; a small round or roundish area, differing in color or feels from the surface around it

ANSWERS: 33. photovoltaics, 34. string, 35. inject, 36. ingredient, 37. sphere, 38. density, 39. flavor, 40. spot

41. The _____ sunset took everyone's breath away.

adj. causing a strong emotional reaction of admiration, surprise, or shock due to its beauty, rarity, or excellence

42. In our country, water _____ usually decreases during the winter.

n. the amount used or eaten; the act of using up a resource such as energy, food, or materials

43. Basketball is their usual _____ after school.

n. the activity that renews your health and spirits by enjoyment and relaxation; the act or process of making something that existed in the past exists or seems to exist again in a different time or place

44. The skin of a snake is remarkably _____ allowing it to slither through tight spaces.

adj. flexible, resilient, or adaptable; (noun) a stretchy material or band that can be stretched and then returned to its original shape; something that is flexible and adaptable

45. The mathematician pioneered fractal _____.

n. the area of pure mathematics that deals with the points, lines, curves, and surfaces

46. He made a generous _____ to the charity.

n. a voluntary gift of money, service, or ideas that are given to a person or an organization, or the act of giving them

47. Please ___ up a bucketful of water from the well.

v. to put something into a liquid for a short time and take it out again

ANSWERS: 41. stunning, 42. consumption, 43. recreation, 44. elastic, 45. geometry, 46. donation, 47. dip

48. This process improves the strength of the metal by controlling the _____ lattice structure of the metal.
adj. on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
49. Internet traffic volumes have increased significantly with the advent of _____.
n. a mobile phone that functions as a computer and connects to the Internet
50. Trees absorb _____ dioxide and give off oxygen.
n. a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals
51. The _____ properties of this herb have been known to help with various ailments.
adj. of or relating to the treatment or cure of disease
52. On three sides, mountains _____ the settlement.
v. to be all around something or somebody
53. I _____ to him that I had seen his sister at the grocery store earlier that day.
v. to speak or write about something or someone briefly
54. His father's death changed his whole _____ on life.
n. a confident attitude toward something; a particular style of thinking about something
55. Please use the _____ to clean up the mess on the floor.
n. a space empty of matter; a device or tool used for cleaning or removing debris by creating suction

ANSWERS: 48. nanoscale, 49. smartphones, 50. carbon, 51. medicinal, 52. surround, 53. mentioned, 54. perspective, 55. vacuum

56. The storm left a _____ of destruction behind it.

- n.* a path or track roughly through a countryside, mountain, or forest area, often made or used for a particular purpose; (verb) to lag or linger behind

57. The general _____ the troops more strategically.

- v.* to share something among people in a different way

58. Inspectors noticed _____ cracks in the submarine's hull.

- adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy

59. The sponge _____ water well.

- v.* to take in a fluid or other substance gradually

60. Many people worry that the current real estate market is a _____ that could burst soon.

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

61. The shape of the DNA _____ is a double helix.

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

62. I bought a gadget before my trip to help _____ stress during the flight.

- v.* to make something, especially something bad, small or less serious

63. The _____ of the argument was well-presented.

- n.* the real physical material of which a thing or person consist; the most important or main part of some idea or experience; an illegal drug

ANSWERS: 56. trail, 57. redistributed, 58. microscopic, 59. absorbs, 60. bubble, 61. molecule, 62. minimize, 63. substance

64. We appreciate your _____ efforts.

adj. involving doing something jointly or working with others to achieve a common goal

65. Eyeless fish _____ in dark caves.

v. to develop gradually, or to cause the development of something or someone gradually

66. The athlete's _____ training paid off in the end.

adj. persistent and determined; continuing despite difficulties or setbacks

67. The _____ force of the earth keeps our planet spinning.

adj. having the properties of attracting or repelling certain materials containing iron or steel

68. I always look forward to reading his stories since they're so _____.

adj. showing inventiveness and ability or skill

69. He helped me with the _____ of this book.

n. the activity of getting ready for something or making something ready

70. During the unloading, the container box _____ a clicking sound.

v. to give off or send out something such as light, heat, sound, gas, etc.

71. The kidney is an _____ component of the body.

adj. of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals

72. They opened a bottle of _____ to celebrate their success.

n. a type of sparkling wine produced in the Champagne region of France, or any similar wine produced elsewhere

ANSWERS: 64. cooperative, 65. evolved, 66. relentless, 67. magnetic, 68. ingenious, 69. preparation, 70. emits, 71. organic, 72. champagne

73. She _____ the toothpaste tube from the middle to get the last bit out.
- v.* to apply pressure from two or more sides; to hold someone or something tightly in your arms, usually with fondness
74. The outermost electron shell of an _____ determines its chemical characteristics.
- n.* the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus
75. The bill to increase the consumption tax had passed despite much _____ from the public.
- n.* the act of defending oneself from an aggressor or refusing to accept something
76. The unique style of this martial arts _____ many action film producers.
- v.* to make somebody fill with the desire, confidence, or enthusiasm, especially to do something creative
77. The blood's red coloring comes from iron _____.
- n.* a chemical compound that contains at least one oxygen atom and one other element
78. The surgeon made an incision in the _____ of the patient's heart.
- n.* a large room used for a formal, public, or particular purpose; one of the parts of a parliament
79. The _____ truck arrived with the packages.
- n.* the act of taking or sending something to a destination; the bringing of a baby during childbirth
80. An _____ scan showed that the baby was a girl.
- n.* higher frequency sound than humans can hear

ANSWERS: 73. squeezed, 74. atom, 75. resistance, 76. inspired, 77. oxide, 78. chambers, 79. delivery, 80. ultrasound

81. The _____ mountains make the city difficult to be invaded.
adj. that is near or around, or closely encircling something
82. The MRI machine uses _____ to produce images of the body's internal organs.
n. an object or substance that can attract certain materials, such as iron or steel
83. He _____ the 10th anniversary of his tenure.
v. to acknowledge a memorable or good day or event with a social gathering or enjoyable activity
84. My hair looks greasy because there is too much _____ in the air.
n. small amounts of liquid, especially water, that are present in or absorbed by a substance
85. We have finally lost our last _____.
n. a piece of wood, metal, etc., placed beneath or against something to support it or keep it in position; a system, institution, or person that gives help or support to someone or something
86. The gasoline _____ had leaked from the container.
n. a substance added to something in small amounts, especially food, to improve or preserve it
87. We can _____ this possibility from those consumptions.
v. to remove or get rid of someone or something
88. Enhanced rail _____ is crucial for our business.
n. a system for moving people or products from one location to another using automobiles, roads, and so on

ANSWERS: 81. surrounding, 82. magnets, 83. celebrated, 84. moisture, 85. prop, 86. additive, 87. eliminate, 88. transportation

89. When I was a child, my mother often cast _____ spells to ease my pain whenever I was injured.

adj. produced by or containing supernatural powers

90. These articles cite five _____ of climate change.

n. a particular example or single occurrence of something

91. The mechanic _____ the gears to prevent them from grinding.

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

92. I cut the cheese into small _____ for the salad.

n. a three-dimensional shape with six square faces that are all equal in size; (of mathematics) the result of multiplying the number by itself three times

93. The _____ train was packed with commuters during rush hour.

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

94. Rebels have pledged to _____ the armed struggle against the dictatorship.

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

95. There are now fears that war is _____.

adj. impossible to avoid or evade; inevitable

96. The width of a single human hair is around 100 _____.

n. a unit of measurement equal to one-millionth of a meter, used for measuring the size of particles and microorganisms

ANSWERS: 89. magical, 90. instances, 91. lubricated, 92. cubes, 93. tube, 94. intensify, 95. unavoidable, 96. microns

97. The enemy fell right into the _____.

- n.* a piece of equipment or hole for catching animals or people; (verb) to catch animals or people and prevent them from escaping

98. We took a boat tour to witness the magnificent _____ colony along the rugged coastline.

- n.* a flightless sea bird that is found in the Southern Hemisphere and is known for its distinctive black and white coloring and its upright, waddling gait

99. The _____ and the oxygen react and then form water.

- n.* the chemical element that is the lightest gas is colorless, odorless, tasteless, and combines with oxygen to form water

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

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

101. The _____ of the rubber band allowed it to stretch without breaking.

- n.* the ability of a material to return to its original shape after being stretched or compressed; flexibility; adaptability to change

102. The sperm whale can _____ to 1,000 meters.

- v.* to jump into the water with your head and arms going in first, or to move down to a deeper level underwater

103. The majority of synthetic vitamins are _____ from oil.

- v.* to make goods in large numbers, usually in a factory using machines

ANSWERS: 97. trap, 98. penguin, 99. hydrogen, 100. pixels, 101. elasticity, 102. dive, 103. manufactured

104. The _____ of freshly baked bread filled the kitchen.

n. a distinctive, usually pleasant smell, often of a specific food, plant, or object

105. The ____ flew over the ocean at high speed, reaching its destination in hours.

n. a type of aircraft that is powered by one or more jet engines and can fly at high speeds, typically over long distances

106. The _____ in the circuit prevented the current from flowing in the wrong direction.

n. an electronic component that conducts current primarily in one direction and typically has two electrodes or terminals

107. The marathon runner covered a long _____ in a short amount of time.

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

108. The _____ motion of the tide was gradually slowing down.

adj. directed or facing towards the inside; inside or inward-looking

109. The paint was a _____ of different pigments to achieve the desired color.

n. a combination of different elements, substances, or entities, usually in non-uniform proportions, resulting in a homogeneous or heterogeneous blend of physical or chemical properties

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

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

ANSWERS: 104. aroma, 105. jet, 106. diode, 107. distance, 108. inward, 109. mixture, 110. develop

111. As a first _____ we agreed to meet the following Friday.

- n.* a plan or preparation for the future event; the action or process of placing things in a particular order

ANSWERS: 111. arrangement,