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Vocabulary Builder Reference from...

David Gruber: Can we learn to talk to sperm whales?

| TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

predator

n. an animal whose natural behavior is to prey on others

synonym : vulture, bloodsucker

(1) apex **predator**, (2) sexual **predators**

The native South American animals were in danger because of the **predator's** arrival.

planet

n. any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star

synonym : earth, world, globe

(1) **planet** like the Earth, (2) save the **planet**

Mercury is the closest **planet** to the sun.

sophisticated

adj. having a great deal of worldly experience and knowledge of people's behavior, culture, and fashion

synonym : refined, cultured, worldly

(1) **sophisticated** look, (2) a **sophisticated** lifestyle

Marketing strategies are growing more **sophisticated**.

communicate

v. to share or exchange information with others by speaking, writing, moving your body, or using other signals

synonym : convey, share, transmit

- (1) **communicate** his anxieties to the psychiatrist,
(2) **communicate** well with my advisor

Dolphins use sound to **communicate** with each other.

whale

n. a very large sea mammal that has a streamlined body and breathes through a blowhole on the head; a very large person; impressive in size or qualities

synonym: porpoise, giant

- (1) a bull **whale**, (2) **whale** watching

Some countries have a culture of eating the flesh of a **whale**.

mighty

adj. very large, powerful, or strong

synonym: potent, powerful, robust

- (1) **mighty** works, (2) struck a **mighty** blow

Only the **mighty** God has the power to brighten this dark land.

sperm

n. the reproductive cell produced by a man or male animal

synonym: seed, semen, seminal fluid

- (1) man with a low **sperm** count, (2) production of **sperm**

The male **sperm** fertilizes the female egg.

fellow

adj. someone who has the same job or interests as you, or is in the same class, profession, or situation as you

synonym: buddy, mate, affiliate

- (1) junior **fellow**, (2) nice **fellow**

He is the kind of **fellow** who only works for his success.

mammal

n. any animal of which the female gives birth to live young, not eggs, and feeds her young on milk from her own body

- (1) a primitive **mammal**, (2) a sort of **mammal**

Marine **mammal** populations are declining worldwide due to ocean pollution.

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.

breath

n. the air that is taken into and expelled from your lungs; the process of taking into and expelling air from your lungs

synonym : air, puff, whiff

(1) hold your **breath**, (2) **breath** of wind

He bated his **breath** when talking about this affair.

amazing

adj. extremely surprising, especially in a way that you like or admire

synonym : exceptional, extraordinary, wonderful

(1) **amazing** advances, (2) the most **amazing** feeling

The golfer recorded an **amazing** distance.

complexity

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

synonym : intricacy, sophistication, elaboration

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

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

matriarchy

n. a social system in which women hold the primary power and authority, typically in a family or clan setting

synonym : matriarchate, matrifocal, matricentric

(1) **matriarchy** society, (2) **matriarchy** system

According to some cultural historians, ancient Egypt was a **matriarchy** for a brief period of time.

coda

n. the concluding part of a musical composition or movement, typically following the main body of the piece and serving as a conclusion; a concluding event or remark

synonym : finale, conclusion, endnote

(1) musical **coda**, (2) literary **coda**

The final **coda** of the symphony was breathtakingly beautiful.

facet

n. one of the many aspects or sides of a subject or situation, especially when seen from different angles or perspectives; a particular feature or characteristic of something

synonym : aspect, side, angle

(1) **facet** to a question, (2) important **facet**

The different **facets** of his personality make him a complex individual.

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.

AI

n. (abbreviation for artificial intelligence) the theory and development of computer systems capable of doing activities that would ordinarily need human intelligence, such as object recognition, speech recognition, decision-making, and language translation

synonym : robot, machine learning, neural network

(1) **AI** expert, (2) apply **AI** technology to art

The evolution of processors has dramatically improved the performance of **AI**.

specialize

v. to become an expert in a specific career field, study, or business

synonym : narrow down, particularize

(1) **specialize** in child care, (2) **specialize** in market research

The restaurant has chefs who **specialize** in beef.

linguist

n. a person who speaks several foreign languages; a person who studies or teaches languages or linguistics

synonym : grammarist, philologue, polyglot

(1) foreign **linguist**, (2) cognitive **linguist**

Though I love literature, I'm a bad **linguist**.

marine

adj. relating to the sea and the creatures and plants that live there

synonym : sea-dwelling, maritime, aquatic

(1) **marine** insurance, (2) variety of **marine** life

Seals and whales are **marine** animals beloved by the people.

biology

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

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

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

cutting-edge

adj. being at the forefront of a particular field or development; (noun) the latest or most advanced stage in the development of a specific type of work or activity

synonym : state-of-the-art, innovative, advanced

(1) **cutting-edge** molecular biology, (2) **cutting-edge** design

The **cutting-edge** technology was revolutionary in its field.

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.

reshape

v. to change the form or structure of something

synonym : alter, adjust, modify

(1) **reshape** education policy, (2) **reshape** my thoughts

The advent of the Internet completely **reshaped** the manufacturing industry.

relation

n. the way two persons or groups of people feel and act toward one another

synonym: association, linkage, connection

(1) **relation** between cause and effect, (2) **relation** of inclusion

The industrial **relations** laws were passed with little to no alteration.

couch

n. a piece of furniture made for sitting, usually with a back and armrests, designed to seat more than one person

synonym: sofa, settee, divan

(1) leather **couch**, (2) a **couch** potato

I love to relax on the **couch** and watch movies on the weekends.

pandemic

n. an outbreak of a disease that affects many people over a very wide area

synonym: outbreak

(1) flu **pandemic**, (2) global **pandemic**

They fear a **pandemic** of a new type of virus.

protest

n. a strong expression of disagreement, disapproval, or opposition

synonym: objection, disapproval, challenge

(1) hold a **protest**, (2) a silent **protest**

He left the party in **protest** at its radical political stance.

oceanography

n. the scientific study of oceans and other bodies of saltwater, including their physical, chemical, and biological characteristics, as well as their interactions with the atmosphere and land

synonym: marine science, oceanology, oceanic research

(1) **oceanography** data, (2) **oceanography** expedition

The **oceanography** research center is dedicated to studying the impacts of climate change on the ocean's ecosystem.

microbe

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

synonym : germ, microorganism, bacterium

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

Microbes thrive on the surface of the human skin.

shark

n. a long-bodied, mostly predatory marine fish that has sharp teeth and a pointed fin on its back; a person who is ruthless, greedy, and dishonest

synonym : swindler, con artist, crook

(1) a man-eating **shark**, (2) card **shark**

He borrowed money from a loan **shark**.

assemble

v. to collect in one place as a single group

synonym : gather, congregate, collect

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

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

interdisciplinary

adj. involving or combining several academic disciplines or fields of study

synonym : multidisciplinary, transdisciplinary

(1) **interdisciplinary** research, (2) an **interdisciplinary** conference

The **interdisciplinary** approach to solving the problem involved experts from multiple fields working together.

collaborate

v. to work with someone else to produce or achieve something

synonym : cooperate, unite, get together

(1) **collaborate** with the police, (2) **collaborate** on a press release

She agreed to **collaborate** with him in creating new artwork.

engineer

n. 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.

gentle

adj. having or showing a kindly or tender nature; soft and mild

synonym : mild, delicate, soft

(1) in a **gentle** voice, (2) **gentle** downward slope
Her **gentle** manner relaxed everyone there.

jellyfish

n. a marine creature with a soft, jelly-like body and tentacles for stinging

synonym : medusa, sea nettle, moon jelly

(1) spineless **jellyfish**, (2) **jellyfish** sting
The beach was filled with hundreds of **jellyfish**, so swimming was not recommended.

fellowship

n. an association of people who share common interests or goals, typically involving research, study, or a specific profession

synonym : association, society, group

(1) research **fellowship**, (2) postdoctoral **fellowship**
The **fellowship** of scientists worked together to conduct research and make important discoveries.

institute

n. an organization that has a specific purpose, particularly one dealing with science, education, or a particular profession; (verb) to initiate, introduce, or establish something

synonym : academy, university, college

(1) **institute** a lawsuit, (2) research **institutes**
This region has many **institutes** offering higher education.

inhabitant

n. a person or an animal that lives in a particular place
synonym : dweller, occupant, resident

(1) the early **inhabitants** of Europe, (2) **inhabitant** tax
His family is the oldest **inhabitant** of the island.

universe

n. everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy

synonym : cosmos, macrocosm

(1) theory of the **universe**, (2) expansion of the **universe**

The **universe** is about 13.8 billion years old.

broadcast

v. to send out a program or some information on radio or television

synonym : air, announce, advertise

(1) **broadcast** a concert, (2) **broadcast** a radio ad

Most of the programs are **broadcast** in this area.

typical

adj. having the usual characteristics or traits of a specific group of things

synonym : characteristic, usual, distinctive

(1) **typical** leader, (2) fairly **typical** symptoms

This artwork is **typical** of her work.

harmonious

adj. characterized by harmony or agreement; free from conflict or disagreement; pleasing or soothing in sound or tone

synonym : concordant, consistent, melodious

(1) **harmonious** relationship, (2) **harmonious** blend

The painting's **harmonious** composition and balance of colors made it a masterpiece.

accustomed

adj. familiar with; used to; in the habit of; having become habituated to something, often a behavior or situation

synonym : familiar, customary, habitual

(1) **accustomed** routine, (2) **accustomed** to complaints

I am **accustomed** to waking up early for work.

digital

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

synonym :

numerical, computerized, cyber

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

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

transfer

v. to move, pass, or change from one person, place, or situation to another

synonym: move, relocate, shift

(1) **transfer** a file, (2) **transfer** power

She **transferred** the money from her savings account to her checking account.

discuss

v. to talk about or examine in detail through conversation or debate; to exchange ideas, opinions, or information on a particular topic

synonym: talk about, converse, debate

(1) **discuss** options, (2) **discuss** solutions

We need to **discuss** the next steps for the project during our meeting tomorrow.

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.

principal

adj. most important, main, or chief

synonym: main, leading, chief

(1) **principal** actor, (2) **principal** responsible

The **principal** reason for the company's success is its innovative products.

conclude

v. to come to an end or close; to reach a judgment or opinion by reasoning

synonym: complete, finish, decide

(1) **conclude** a meeting, (2) **conclude** that he is healthy

We **concluded** a cease-fire.

crack

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

synonym : snap, burst, break

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

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

interspecies

adj. occurring between or involving different species; pertaining to interactions between different species

synonym : interbreeding, crossbreeding, mixed

(1) **interspecies** interaction, (2) **interspecies** communication

There are many cases of **interspecies** cooperation in the animal kingdom.

inevitable

adj. certain to happen and unavoidable

synonym : inescapable, unavoidable, sure

(1) **inevitable** changes of the seasons, (2) **inevitable** result

In times of recession, an increase in unemployment is **inevitable**.

analyze

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

synonym : explore, examine, investigate

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

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

converse

v. to talk informally

synonym : discourse, discuss, exchange

(1) **converse** with an acquaintance, (2) ask a **converse** question

She enjoyed the opportunity to **converse** with a person who

spoke her language.

structure

n. the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts

synonym: construction, architecture, establishment

(1) the **structure** of a machine, (2) **structure** and function of the brain

The organizational **structure** of start-ups is often flat and straightforward.

sequence

n. a series of related events, actions, numbers, etc., which have a particular order

synonym: arrangement, succession, series

(1) the **sequence** of the seasons, (2) the DNA **sequence**

We do move forward with those tasks in **sequence** next week.

dialect

n. a form of a language that is spoken in a particular geographical area or by a particular group of people and has distinguishing characteristics

synonym: accent, language, vernacular

(1) a local **dialect**, (2) minority **dialect**

The **dialect** spoken in the region differed from other parts of the country.

accent

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

synonym: articulation, inflection, pronunciation

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

She has a thick southern **accent**.

translate

v. to convert or change words into another language

synonym: convert, transcribe, render

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

emotion to a movement

Translate the text from Italian into English.

dictionary

n. a reference book containing an alphabetical list of words and their definitions, as well as information about their origins, usage, and pronunciation

synonym: lexicon, glossary, vocabulary

(1) **dictionary** definition, (2) online **dictionary**

I need to purchase a new English **dictionary**.

dimension

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

synonym: extent, measurement, size

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

Overall **dimensions** are approximately 400x200mm.

painstaking

adj. cautious and correct, and requiring a significant amount of effort

synonym: detailed, meticulous, conscientious

(1) **painstaking** research, (2) a **painstaking** student

The training of a hawk was a **painstaking** process.

annotate

v. to make notes or comments on a text or document

synonym: comment on, note, mark

(1) **annotate** a book, (2) **annotate** text

I need to **annotate** this document before I submit it.

correlate

v. to have a connection or relationship in which one thing affects or depends on another

synonym: associate, liken, connect

(1) **correlate** closely with the quality, (2) **correlate** to the size

We may frequently **correlate** age with the frequency of disease.

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.

autonomous

adj. capable of governing or controlling its affairs

synonym: independent, self-governing, self-reliant

(1) development of **autonomous** vehicles, (2) an **autonomous** judiciary

Five of the six provinces will become **autonomous** regions under the new federal system of government.

aerial

n. a type of acrobatics or gymnastics performed while suspended from hanging fabric or rings; a pass or shot in sports (particularly in soccer or volleyball) that is made while the player is in the air

synonym: antenna, skywire, transmitter

(1) **aerial** antenna, (2) **aerial** photography

The **aerial** view from the airplane showed the beautiful landscape below.

aquatic

adj. growing or living in, on or near, or connected with water

synonym: marine, submarine, oceanic

(1) **aquatic** vehicles, (2) **aquatic** life

Aquatic ecosystems perform many essential environmental functions.

drone

n. a low continuous humming noise; someone who takes more time than necessary; a pilot-less aerial vehicle that is operated by remote control

synonym: hum, whirr, idler

(1) **drone** flight, (2) the speaker's **drone**

He heard a **drone** of sirens roar from the neighboring town.

mount

v. to increase, go up, or advance gradually or continuously; to prepare and supply with the necessary equipment for execution or performance; to ride on something or

someone

synonym : climb, increase, get on

(1) **mount** a hill, (2) **mount** a counterattack

They **mounted** pictures on the paper in preparation for the birthday card.

hydrophone

n. a device used to detect and analyze sound waves in water, typically used for underwater acoustics research, sonar systems, or underwater surveillance

synonym : underwater microphone, acoustic sensor, sonar receiver

(1) deep-sea **hydrophone**, (2) **hydrophone** sensor

The military uses **hydrophones** for underwater surveillance and communication.

array

n. a large group or collection of things or people, especially one that is impressive or attractive

synonym : collection, display, batch

(1) a two-dimensional **array**, (2) an **array** of troops

The customer on the Internet has to choose one from a formidable **array** of products.

frequent

adj. happening constantly

synonym : periodic, recurring, routine

(1) **frequent** absence, (2) **frequent** use

His heartaches are less **frequent** now.

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.

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.

calf

n. a young cow, bull, or other domestic bovine animals
synonym: baby cow, heifer, yearling

- (1) baby **calf**,
- (2) a **calf** elephant

The newborn **calf** stood on wobbly legs, trying to find its mother's milk.

algorithm

n. a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation
synonym: logic, method, rule

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

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

pipeline

n. a very long large tube that is usually underground and is used for carrying liquid or gas for long distances
synonym: channel, line

- (1) a data **pipeline**,
- (2) **pipeline** facilities

Rebels sabotaged the main **pipeline** supplying oil.

context

n. the circumstances, facts, or conditions that surround a particular event, situation, or statement and that give it meaning

synonym: background, setting, environment

- (1) historical **context**,
- (2) legal **context**

It's important to understand the **context** of a situation before making a decision.

engine

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

synonym: motor, locomotive, driver

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

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

linguistics

n. the study of language and its structure, including the study of grammar, syntax, and phonetics

synonym: language studies, phonology, etymology

(1) comparative **linguistics**, (2) **linguistics** professor

A new study in **linguistics** research showed that bilingualism delays the onset of dementia.

syntax

n. the grammatical order or rule of words in a sentence

synonym: grammar

(1) French **syntax**, (2) **syntax** error

Let's investigate the **syntax** of Latin.

displacement

n. the act of forcing someone or something to leave their home or place of origin, especially as a result of conflict, natural disaster, or manipulation

synonym: eviction, exile, exodus

(1) **displacement** camp, (2) a car with 1800 cc

displacement

The **displacement** of the residents was a consequence of the construction of the new highway.

simplistic

adj. oversimplified or lacking in complexity or depth; characterized by an attempt to explain something complex or multifaceted with overly vague or simple terms

synonym: basic, uncomplicated, elementary

(1) **simplistic** approach, (2) **simplistic** design

The politician's solution to the problem was too **simplistic** to solve the underlying issue.

fin

n. a thin flat part on the body of a fish or other aquatic animal used for propulsion or balance

synonym: flipper, appendage, stabilizer

(1) back **fin**, (2) a **fin** of a plane

The shark's powerful **fins** allowed it to swim at high speeds.

platform

n. the raised flat space close to the track at a train station where passengers get on or off the train; (technology) a computational or digital environment in which a piece of software is executed

synonym : stage, podium, forum

(1) an arrival **platform**, (2) a digital **platform** for enterprise

The speaker mounted the **platform** and started to speak.

encouraging

adj. giving hope, confidence, or support; inspiring

synonym : uplifting, inspiring, optimistic

(1) **encouraging** approval, (2) **encouraging** sign

The test results were **encouraging** and showed improvement.

communal

adj. belonging to or used by a group rather than individuals; for common use

synonym : collaborative, combined, collective

(1) **communal** swimming pool, (2) **communal** combination of funds

Communal elections were held in several European countries.

intelligent

adj. having the capacity for thought and reason, especially to a high degree

synonym : brilliant, clever, competent

(1) an **intelligent** person, (2) **intelligent** assisting system

Intelligent robots that can cooperate with humans have limited motor output for safety.

neocortex

n. the part of the cerebral cortex that is responsible for higher brain functions such as conscious thought and decision-making

synonym : prefrontal lobe, cerebral cortex, forebrain

(1) stored in **neocortex**, (2) **neocortex** function

The cerebral **neocortex** is responsible for higher brain

functions such as decision-making and problem-solving.

spindle

n. a rotating shaft that serves as axes for larger rotating parts; (biology) tiny fibers that are seen in cell division

synonym: shaft, axis, mandrel

(1) a **spindle-shaped** muscle, (2) **spindle** cell cancer

A powerful **spindle** motor is required to process these metal parts.

emotion

n. 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.

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.

applied

adj. of or relating to a subject of study, especially a science, that is used in a practical way

synonym: practical, practiced, used

(1) **applied** research, (2) **applied** physics

Military technology eventually became the foundation for **applied** technology that supported people's lives.

primate

n. any mammal of the order Primates, which includes monkeys, apes, and humans

synonym: ape, monkey, lemur

(1) **primate** species, (2) **primate** sanctuary

Many scientists study **primate** behavior and intelligence.

dolphin

n. a marine mammal that typically has a beaklike snout, a streamlined body, and flippers and that feeds on fish and squid

synonym: porpoise, cetacean, marine mammal

(1) **dolphin** show, (2) **dolphin-watching** tour

The large group of **dolphins** swam gracefully in the ocean, jumping out of the water now and then.

essentially

adv. relating to the essential features or concepts of anything

synonym: fundamentally, basically, virtually

(1) **essentially** correct, (2) become **essentially** same

Essentially, a society is an organism.

discovery

n. the act or process of finding information, a place, or an object, or learning about something that was previously not known

synonym: finding, uncovering, detection

(1) a scientific **discovery**, (2) the great **discovery** of the century

Her research team made an important **discovery**.

spark

v. to start something or make it grow, especially suddenly; to emit a tiny piece of fire or electricity

synonym: start, inspire, provoke

(1) **spark** his interest, (2) **spark** a chain reaction

The bankruptcy of the giant conglomerate **sparked** turmoil in the stock market.

movement

n. a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively

synonym: motion, progression, action

(1) a circular **movement**, (2) **movement** of troops

The **movement** of the dancers on stage was graceful and

elegant.

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.

extinction

n. the complete disappearance of a species from the earth

synonym: disappearance, eradication, annihilation

(1) **extinction** prevention, (2) brink of **extinction**

The **extinction** of the dinosaurs is thought to have been caused by an asteroid impact.

dialogue

n. a conversation in a book, play, or film

synonym: conversation, discussion, talk

(1) Platonic **dialogues**, (2) the form of a **dialogue**

He recorded the **dialogue** at the time of the incident.

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.

newfound

adj. newly discovered or acquired

synonym: afresh, new, recently discovered

(1) a **newfound** mine, (2) **newfound** freedom

With his **newfound** wealth, he could travel the world and indulge in his passions.

Session 2: Spelling

1. a scientific di_____ry
n. the act or process of finding information, a place, or an object, or learning about something that was previously not known
2. har_____us blend
adj. characterized by harmony or agreement; free from conflict or disagreement; pleasing or soothing in sound or tone
3. br_____st a concert
v. to send out a program or some information on radio or television
4. put the ac____t on comfort
n. a distinctive way of pronouncing the words of a language that shows which area, country, or social group a person comes from; particular importance or significance
5. as_____le a jigsaw puzzle
v. to collect in one place as a single group
6. re_____on of inclusion
n. the way two persons or groups of people feel and act toward one another
7. a_m to be a nurse
v. to try or plan to get or achieve something
8. di_____s options
v. to talk about or examine in detail through conversation or debate; to exchange ideas, opinions, or information on a particular topic
9. a circular mo_____nt
n. a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively

ANSWERS: 1. discovery, 2. harmonious, 3. broadcast, 4. accent, 5. assemble, 6. relation, 7. aim, 8. discuss, 9. movement

10. int_____on among human beings *n.* the act of connecting with someone, mainly when working, playing, or spending time with them
11. ne_____nd freedom *adj.* newly discovered or acquired
12. je_____sh sting *n.* a marine creature with a soft, jelly-like body and tentacles for stinging
13. pr_____e sanctuary *n.* any mammal of the order Primates, which includes monkeys, apes, and humans
14. ty_____l leader *adj.* having the usual characteristics or traits of a specific group of things
15. foreign li_____st *n.* a person who speaks several foreign languages; a person who studies or teaches languages or linguistics
16. spineless je_____sh *n.* a marine creature with a soft, jelly-like body and tentacles for stinging
17. fr_____nt use *adj.* happening constantly
18. pr_____al responsible *adj.* most important, main, or chief
19. the se_____ce of the seasons *n.* a series of related events, actions, numbers, etc., which have a particular order
20. al_____hm for image processing *n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation
21. mat_____hy society *n.* a social system in which women hold the primary power and authority, typically in a family or clan setting

ANSWERS: 10. interaction, 11. newfound, 12. jellyfish, 13. primate, 14. typical, 15. linguist, 16. jellyfish, 17. frequent, 18. principal, 19. sequence, 20. algorithm, 21. matriarchy

22. ap____d physics *adj.* of or relating to a subject of study, especially a science, that is used in a practical way
23. com_____ty theory *n.* the state or quality of being complicated or intricate and difficult to understand
24. cognitive com_____ty *n.* the state or quality of being complicated or intricate and difficult to understand
25. pi_____ne facilities *n.* a very long large tube that is usually underground and is used for carrying liquid or gas for long distances
26. cr__k an eggshell *v.* to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking
27. st_____re and function of the brain *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
28. become ess_____ly same *adv.* relating to the essential features or concepts of anything
29. cut_____dge molecular biology *adj.* being at the forefront of a particular field or development; (noun) the latest or most advanced stage in the development of a specific type of work or activity
30. sp__k his interest *v.* to start something or make it grow, especially suddenly; to emit a tiny piece of fire or electricity
31. co_____de a meeting *v.* to come to an end or close; to reach a judgment or opinion by reasoning

ANSWERS: 22. applied, 23. complexity, 24. complexity, 25. pipeline, 26. crack, 27. structure, 28. essentially, 29. cutting-edge, 30. spark, 31. conclude

32. enc_____ng approval *adj.* giving hope, confidence, or support; inspiring
33. development of aut_____us vehicles *adj.* capable of governing or controlling its affairs
34. a di_____l watch *adj.* processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet
35. mi____y works *adj.* very large, powerful, or strong
36. evolutionary bi_____y *n.* the scientific study of life and the natural processes of living things
37. back f_n *n.* a thin flat part on the body of a fish or other aquatic animal used for propulsion or balance
38. postdoctoral fel_____ip *n.* an association of people who share common interests or goals, typically involving research, study, or a specific profession
39. a pai_____ng student *adj.* cautious and correct, and requiring a significant amount of effort
40. an arrival pl_____rm *n.* the raised flat space close to the track at a train station where passengers get on or off the train; (technology) a computational or digital environment in which a piece of software is executed
41. 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

ANSWERS: 32. encouraging, 33. autonomous, 34. digital, 35. mighty, 36. biology, 37. fin, 38. fellowship, 39. painstaking, 40. platform, 41. dive

42. global pa____ic *n.* an outbreak of a disease that affects many people over a very wide area
43. pl____t like the Earth *n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
44. col____te with the police *v.* to work with someone else to produce or achieve something
45. a ne____nd mine *adj.* newly discovered or acquired
46. a data pi____ne *n.* a very long large tube that is usually underground and is used for carrying liquid or gas for long distances
47. do____n-watching tour *n.* a marine mammal that typically has a beaklike snout, a streamlined body, and flippers and that feeds on fish and squid
48. mo__t a hill *v.* to increase, go up, or advance gradually or continuously; to prepare and supply with the necessary equipment for execution or performance; to ride on something or someone
49. in____te a lawsuit *n.* an organization that has a specific purpose, particularly one dealing with science, education, or a particular profession; (verb) to initiate, introduce, or establish something
50. int____nt assisting system *adj.* having the capacity for thought and reason, especially to a high degree
51. mat____hy system *n.* a social system in which women hold the primary power and authority, typically in a family or clan setting

ANSWERS: 42. pandemic, 43. planet, 44. collaborate, 45. newfound, 46. pipeline, 47. dolphin, 48. mount, 49. institute, 50. intelligent, 51. matriarchy

52. dr__e flight *n.* a low continuous humming noise; someone who takes more time than necessary; a pilot-less aerial vehicle that is operated by remote control
53. theory of the un_____se *n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
54. apply AI technology to art *n.* (abbreviation for artificial intelligence) the theory and development of computer systems capable of doing activities that would ordinarily need human intelligence, such as object recognition, speech recognition, decision-making, and language translation
55. cut_____dge design *adj.* being at the forefront of a particular field or development; (noun) the latest or most advanced stage in the development of a specific type of work or activity
56. research fel_____ip *n.* an association of people who share common interests or goals, typically involving research, study, or a specific profession
57. ma_____l powers *adj.* produced by or containing supernatural powers
58. sy___x error *n.* the grammatical order or rule of words in a sentence
59. the early inh_____nts of Europe *n.* a person or an animal that lives in a particular place

ANSWERS: 52. drone, 53. universe, 54. AI, 55. cutting-edge, 56. fellowship, 57. magical, 58. syntax, 59. inhabitant

60. a co__h potato *n.* a piece of furniture made for sitting, usually with a back and armrests, designed to seat more than one person
61. re____on between cause and effect *n.* the way two persons or groups of people feel and act toward one another
62. the speaker's dr__e *n.* a low continuous humming noise; someone who takes more time than necessary; a pilot-less aerial vehicle that is operated by remote control
63. literary c__a *n.* the concluding part of a musical composition or movement, typically following the main body of the piece and serving as a conclusion; a concluding event or remark
64. a primitive ma____l *n.* any animal of which the female gives birth to live young, not eggs, and feeds her young on milk from her own body
65. brink of ext____on *n.* the complete disappearance of a species from the earth
66. a car with 1800 cc dis____ent *n.* the act of forcing someone or something to leave their home or place of origin, especially as a result of conflict, natural disaster, or manipulation
67. int____ies interaction *adj.* occurring between or involving different species; pertaining to interactions between different species
68. a bull wh__e *n.* a very large sea mammal that has a streamlined body and breathes through a blowhole on the head; a very large person; impressive in size or qualities

ANSWERS: 60. couch, 61. relation, 62. drone, 63. coda, 64. mammal, 65. extinction, 66. displacement, 67. interspecies, 68. whale

69. research in _____tes *n.* an organization that has a specific purpose, particularly one dealing with science, education, or a particular profession; (verb) to initiate, introduce, or establish something
70. ap_____d research *adj.* of or relating to a subject of study, especially a science, that is used in a practical way
71. do_____n show *n.* a marine mammal that typically has a beaklike snout, a streamlined body, and flippers and that feeds on fish and squid
72. an aut_____us judiciary *adj.* capable of governing or controlling its affairs
73. a_m at a specific target *v.* to try or plan to get or achieve something
74. oce_____phy expedition *n.* the scientific study of oceans and other bodies of saltwater, including their physical, chemical, and biological characteristics, as well as their interactions with the atmosphere and land
75. har_____us relationship *adj.* characterized by harmony or agreement; free from conflict or disagreement; pleasing or soothing in sound or tone
76. inh_____nt tax *n.* a person or an animal that lives in a particular place
77. com_____te his anxieties to the psychiatrist *v.* to share or exchange information with others by speaking, writing, moving your body, or using other signals

ANSWERS: 69. institute, 70. applied, 71. dolphin, 72. autonomous, 73. aim, 74. oceanography, 75. harmonious, 76. inhabitant, 77. communicate

78. ge___e downward slope *adj.* having or showing a kindly or tender nature; soft and mild
79. com_____te well with my advisor *v.* to share or exchange information with others by speaking, writing, moving your body, or using other signals
80. en_____er shortage *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
81. the crosswise di_____on *n.* a measurable extent of a particular kind, such as width, height, or length
82. a sp_____e-shaped muscle *n.* a rotating shaft that serves as axes for larger rotating parts; (biology) tiny fibers that are seen in cell division
83. 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
84. hold your br___h *n.* the air that is taken into and expelled from your lungs; the process of taking into and expelling air from your lungs
85. co_____de that he is healthy *v.* to come to an end or close; to reach a judgment or opinion by reasoning
86. production of sp__m *n.* the reproductive cell produced by a man or male animal
87. control my em_____n *n.* a strong feeling such as love, anger, etc. deriving from one's situation, mood, or relationships with others

ANSWERS: 78. gentle, 79. communicate, 80. engineer, 81. dimension, 82. spindle, 83. develop, 84. breath, 85. conclude, 86. sperm, 87. emotion

88. co____al swimming pool *adj.* belonging to or used by a group rather than individuals; for common use
89. an____te text *v.* to make notes or comments on a text or document
90. important fa__t *n.* one of the many aspects or sides of a subject or situation, especially when seen from different angles or perspectives; a particular feature or characteristic of something
91. card sh__k *n.* a long-bodied, mostly predatory marine fish that has sharp teeth and a pointed fin on its back; a person who is ruthless, greedy, and dishonest
92. aq____c vehicles *adj.* growing or living in, on or near, or connected with water
93. sim____ic approach *adj.* oversimplified or lacking in complexity or depth; characterized by an attempt to explain something complex or multifaceted with overly vague or simple terms
94. co____te closely with the quality *v.* to have a connection or relationship in which one thing affects or depends on another
95. flu pa____ic *n.* an outbreak of a disease that affects many people over a very wide area
96. ad____e the technology *v.* to go or move forward; to develop in a positive way
97. historical co____t *n.* the circumstances, facts, or conditions that surround a particular event, situation, or statement and that give it meaning

ANSWERS: 88. communal, 89. annotate, 90. facet, 91. shark, 92. aquatic, 93. simplistic, 94. correlate, 95. pandemic, 96. advance, 97. context

98. aq_____c life *adj.* growing or living in, on or near, or connected with water
99. struck a mi____y blow *adj.* very large, powerful, or strong
100. pr_____al actor *adj.* most important, main, or chief
101. acc_____ed to complaints *adj.* familiar with; used to; in the habit of; having become habituated to something, often a behavior or situation
102. re_____e education policy *v.* to change the form or structure of something
103. the form of a di_____ue *n.* a conversation in a book, play, or film
104. an air-cooled en____e *n.* a machine that converts thermal energy to mechanical work; something that has an important role used to achieve a purpose
105. Platonic di_____ues *n.* a conversation in a book, play, or film
106. int_____ies communication *adj.* occurring between or involving different species; pertaining to interactions between different species
107. cognitive li_____st *n.* a person who speaks several foreign languages; a person who studies or teaches languages or linguistics
108. mo_____nt of troops *n.* a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively
109. co_____se with an acquaintance *v.* to talk informally

ANSWERS: 98. aquatic, 99. mighty, 100. principal, 101. accustomed, 102. reshape, 103. dialogue, 104. engine, 105. dialogue, 106. interspecies, 107. linguist, 108. movement, 109. converse

110. ma___e insurance *adj.* relating to the sea and the creatures and plants that live there
111. baby c__f *n.* a young cow, bull, or other domestic bovine animals
112. dis_____ent camp *n.* the act of forcing someone or something to leave their home or place of origin, especially as a result of conflict, natural disaster, or manipulation
113. an ar__y of troops *n.* a large group or collection of things or people, especially one that is impressive or attractive
114. oce_____phy data *n.* the scientific study of oceans and other bodies of saltwater, including their physical, chemical, and biological characteristics, as well as their interactions with the atmosphere and land
115. sp__k a chain reaction *v.* to start something or make it grow, especially suddenly; to emit a tiny piece of fire or electricity
116. di_____s solutions *v.* to talk about or examine in detail through conversation or debate; to exchange ideas, opinions, or information on a particular topic
117. a digital pl_____rm for enterprise *n.* the raised flat space close to the track at a train station where passengers get on or off the train; (technology) a computational or digital environment in which a piece of software is executed

ANSWERS: 110. marine, 111. calf, 112. displacement, 113. array, 114. oceanography, 115. spark, 116. discuss, 117. platform

118. fr____nt absence *adj.* happening constantly
119. sp____ic instructions *adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
120. new di_____on *n.* a measurable extent of a particular kind, such as width, height, or length
121. nice fe___w *adj.* someone who has the same job or interests as you, or is in the same class, profession, or situation as you
122. ine_____le changes of the seasons *adj.* certain to happen and unavoidable
123. variety of ma___e life *adj.* relating to the sea and the creatures and plants that live there
124. lin_____cs professor *n.* the study of language and its structure, including the study of grammar, syntax, and phonetics
125. 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
126. junior fe___w *adj.* someone who has the same job or interests as you, or is in the same class, profession, or situation as you
127. ae___l photography *n.* a type of acrobatics or gymnastics performed while suspended from hanging fabric or rings; a pass or shot in sports (particularly in soccer or volleyball) that is made while the player is in the air
128. mi_____es sterilizer *n.* a tiny living thing that can only be seen with a microscope and that may cause disease

ANSWERS: 118. frequent, 119. specific, 120. dimension, 121. fellow, 122. inevitable, 123. marine, 124. linguistics, 125. dive, 126. fellow, 127. aerial, 128. microbe

129. apex pr____or
n. an animal whose natural behavior is to prey on others
130. a foreign ac____t
n. a distinctive way of pronouncing the words of a language that shows which area, country, or social group a person comes from; particular importance or significance
131. an int____nt person
adj. having the capacity for thought and reason, especially to a high degree
132. sexual pr____ors
n. an animal whose natural behavior is to prey on others
133. in____ve species
adj. spreading very quickly, and often aggressively, and difficult to stop
134. co____al combination of funds
adj. belonging to or used by a group rather than individuals; for common use
135. a civil en____er
n. a person whose job is designing, building, or maintaining something such as machines, structures, or software
136. ess____ly correct
adv. relating to the essential features or concepts of anything
137. online dic____ry
n. a reference book containing an alphabetical list of words and their definitions, as well as information about their origins, usage, and pronunciation
138. deep-sea hyd____ne
n. a device used to detect and analyze sound waves in water, typically used for underwater acoustics research, sonar systems, or underwater surveillance
139. AI expert
n. (abbreviation for artificial intelligence) the theory and development of computer systems capable of doing activities that would ordinarily need human intelligence, such as object recognition, speech recognition, decision-making, and language translation

ANSWERS: 129. predator, 130. accent, 131. intelligent, 132. predator, 133. invasive,

134. communal, 135. engineer, 136. essentially, 137. dictionary, 138. hydrophone,
139. AI

140. a two-dimensional ar__y *n.* a large group or collection of things or people, especially one that is impressive or attractive
141. industry-sp____ic regulations *adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
142. tr____er power *v.* to move, pass, or change from one person, place, or situation to another
143. a sop_____ted lifestyle *adj.* having a great deal of worldly experience and knowledge of people's behavior, culture, and fashion
144. spe_____ze in market research *v.* to become an expert in a specific career field, study, or business
145. expansion of the un____se *n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
146. sim_____ic design *adj.* oversimplified or lacking in complexity or depth; characterized by an attempt to explain something complex or multifaceted with overly vague or simple terms
147. di____l electronic signature *adj.* processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet
148. ne_____ex function *n.* the part of the cerebral cortex that is responsible for higher brain functions such as conscious thought and decision-making

ANSWERS: 140. array, 141. specific, 142. transfer, 143. sophisticated, 144. specialize, 145. universe, 146. simplistic, 147. digital, 148. neocortex

149. spe_____ze in child care *v.* to become an expert in a specific career field, study, or business
150. tr_____te the emotion to a movement *v.* to convert or change words into another language
151. ine_____le result *adj.* certain to happen and unavoidable
152. col_____te on a press release *v.* to work with someone else to produce or achieve something
153. an_____te a book *v.* to make notes or comments on a text or document
154. the great di_____ry of the century *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
155. br_____st a radio ad *v.* to send out a program or some information on radio or television
156. lar_____le project *adj.* involving many people or things and involving a lot of change or activity
157. comparative lin_____cs *n.* the study of language and its structure, including the study of grammar, syntax, and phonetics
158. a c__f elephant *n.* a young cow, bull, or other domestic bovine animals
159. mo__t a counterattack *v.* to increase, go up, or advance gradually or continuously; to prepare and supply with the necessary equipment for execution or performance; to ride on something or someone
160. a per_____ve view *n.* a confident attitude toward something; a particular style of thinking about something

ANSWERS: 149. specialize, 150. translate, 151. inevitable, 152. collaborate, 153. annotate, 154. discovery, 155. broadcast, 156. large-scale, 157. linguistics, 158. calf, 159. mount, 160. perspective

161. French sy___x *n.* the grammatical order or rule of words in a sentence
162. a sort of ma___l *n.* any animal of which the female gives birth to live young, not eggs, and feeds her young on milk from her own body
163. the DNA se____ce *n.* a series of related events, actions, numbers, etc., which have a particular order
164. ext_____on prevention *n.* the complete disappearance of a species from the earth
165. a steam en___e *n.* a machine that converts thermal energy to mechanical work; something that has an important role used to achieve a purpose
166. dic_____ry definition *n.* a reference book containing an alphabetical list of words and their definitions, as well as information about their origins, usage, and pronunciation
167. am_____g advances *adj.* extremely surprising, especially in a way that you like or admire
168. legal co_____t *n.* the circumstances, facts, or conditions that surround a particular event, situation, or statement and that give it meaning
169. minority di_____t *n.* a form of a language that is spoken in a particular geographical area or by a particular group of people and has distinguishing characteristics
170. man with a low sp__m count *n.* the reproductive cell produced by a man or male animal

ANSWERS: 161. syntax, 162. mammal, 163. sequence, 164. extinction, 165. engine, 166. dictionary, 167. amazing, 168. context, 169. dialect, 170. sperm

171. a local di____t *n.* a form of a language that is spoken in a particular geographical area or by a particular group of people and has distinguishing characteristics
172. stored in ne_____ex *n.* the part of the cerebral cortex that is responsible for higher brain functions such as conscious thought and decision-making
173. an_____e your real motives *v.* to think about in-depth and evaluate to discover essential features or meaning
174. in a ge___e voice *adj.* having or showing a kindly or tender nature; soft and mild
175. leather co__h *n.* a piece of furniture made for sitting, usually with a back and armrests, designed to seat more than one person
176. fairly ty_____l symptoms *adj.* having the usual characteristics or traits of a specific group of things
177. ae___l antenna *n.* a type of acrobatics or gymnastics performed while suspended from hanging fabric or rings; a pass or shot in sports (particularly in soccer or volleyball) that is made while the player is in the air
178. re_____e my thoughts *v.* to change the form or structure of something
179. ma_____l place *adj.* produced by or containing supernatural powers
180. br___h of wind *n.* the air that is taken into and expelled from your lungs; the process of taking into and expelling air from your lungs

ANSWERS: 171. dialect, 172. neocortex, 173. analyze, 174. gentle, 175. couch, 176. typical, 177. aerial, 178. reshape, 179. magical, 180. breath

181. a silent pr____t *n.* a strong expression of disagreement, disapproval, or opposition
182. the most am____g feeling *adj.* extremely surprising, especially in a way that you like or admire
183. a man-eating sh__k *n.* a long-bodied, mostly predatory marine fish that has sharp teeth and a pointed fin on its back; a person who is ruthless, greedy, and dishonest
184. the st_____re of a machine *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
185. as_____le your colleagues *v.* to collect in one place as a single group
186. musical c__a *n.* the concluding part of a musical composition or movement, typically following the main body of the piece and serving as a conclusion; a concluding event or remark
187. int_____ary research *adj.* involving or combining several academic disciplines or fields of study
188. pr_____e species *n.* any mammal of the order Primates, which includes monkeys, apes, and humans
189. acc_____ed routine *adj.* familiar with; used to; in the habit of; having become habituated to something, often a behavior or situation
190. in_____ve breast cancer *adj.* spreading very quickly, and often aggressively, and difficult to stop
191. tr_____er a file *v.* to move, pass, or change from one person, place, or situation to another

ANSWERS: 181. protest, 182. amazing, 183. shark, 184. structure, 185. assemble, 186. coda, 187. interdisciplinary, 188. primate, 189. accustomed, 190. invasive, 191. transfer

192. the int_____on between man and his environment *n.* the act of connecting with someone, mainly when working, playing, or spending time with them
193. an int_____ary conference *adj.* involving or combining several academic disciplines or fields of study
194. wh__e watching *n.* a very large sea mammal that has a streamlined body and breathes through a blowhole on the head; a very large person; impressive in size or qualities
195. enc_____ng sign *adj.* giving hope, confidence, or support; inspiring
196. 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
197. afraid to show em_____n *n.* a strong feeling such as love, anger, etc. deriving from one's situation, mood, or relationships with others
198. an_____e a chemical compound *v.* to think about in-depth and evaluate to discover essential features or meaning
199. lar_____le agriculture *adj.* involving many people or things and involving a lot of change or activity
200. hyd_____ne sensor *n.* a device used to detect and analyze sound waves in water, typically used for underwater acoustics research, sonar systems, or underwater surveillance
201. pathogenic mi_____e *n.* a tiny living thing that can only be seen with a microscope and that may cause disease

ANSWERS: 192. interaction, 193. interdisciplinary, 194. whale, 195. encouraging, 196. develop, 197. emotion, 198. analyze, 199. large-scale, 200. hydrophone, 201. microbe

202. sop_____ted look *adj.* having a great deal of worldly experience and knowledge of people's behavior, culture, and fashion
203. ask a co_____se question *v.* to talk informally
204. co_____te to the size *v.* to have a connection or relationship in which one thing affects or depends on another
205. a f_n of a plane *n.* a thin flat part on the body of a fish or other aquatic animal used for propulsion or balance
206. pai_____ng research *adj.* cautious and correct, and requiring a significant amount of effort
207. a cr__k in a board *v.* to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking
208. hold a pr_____t *n.* a strong expression of disagreement, disapproval, or opposition
209. cell and molecular bi_____y *n.* the scientific study of life and the natural processes of living things
210. ad_____e a cooperative relationship *v.* to go or move forward; to develop in a positive way
211. save the pl____t *n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
212. sp_____e cell cancer *n.* a rotating shaft that serves as axes for larger rotating parts; (biology) tiny fibers that are seen in cell division

ANSWERS: 202. sophisticated, 203. converse, 204. correlate, 205. fin, 206. painstaking, 207. crack, 208. protest, 209. biology, 210. advance, 211. planet, 212. spindle

213. the per_____ve of the battle *n.* a confident attitude toward something; a particular style of thinking about something
214. tr_____te a document into English *v.* to convert or change words into another language
215. the RSA al_____hm *n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation
216. fa__t to a question *n.* one of the many aspects or sides of a subject or situation, especially when seen from different angles or perspectives; a particular feature or characteristic of something

ANSWERS: 213. perspective, 214. translate, 215. algorithm, 216. facet

Session 3: Fill in the Blanks

1. They fear a _____ of a new type of virus.
n. an outbreak of a disease that affects many people over a very wide area
2. The _____ research center is dedicated to studying the impacts of climate change on the ocean's ecosystem.
n. the scientific study of oceans and other bodies of saltwater, including their physical, chemical, and biological characteristics, as well as their interactions with the atmosphere and land
3. I love to relax on the _____ and watch movies on the weekends.
n. a piece of furniture made for sitting, usually with a back and armrests, designed to seat more than one person
4. The policies he announces can be the _____ of economic growth in the country.
n. a machine that converts thermal energy to mechanical work; something that has an important role used to achieve a purpose
5. We need to _____ the next steps for the project during our meeting tomorrow.
v. to talk about or examine in detail through conversation or debate; to exchange ideas, opinions, or information on a particular topic
6. 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
7. _____ robots that can cooperate with humans have limited motor output for safety.
adj. having the capacity for thought and reason, especially to a high degree

ANSWERS: 1. pandemic, 2. oceanography, 3. couch, 4. engine, 5. discuss, 6. magical, 7. Intelligent

8. The golfer recorded an _____ distance.

adj. extremely surprising, especially in a way that you like or admire

9. He borrowed money from a loan _____.

n. a long-bodied, mostly predatory marine fish that has sharp teeth and a pointed fin on its back; a person who is ruthless, greedy, and dishonest

10. We ____ for an overseas expansion.

v. to try or plan to get or achieve something

11. This artwork is _____ of her work.

adj. having the usual characteristics or traits of a specific group of things

12. The military uses _____ for underwater surveillance and communication.

n. a device used to detect and analyze sound waves in water, typically used for underwater acoustics research, sonar systems, or underwater surveillance

13. Scientific knowledge will _____ significantly with the power of AI.

v. to go or move forward; to develop in a positive way

14. The _____ of the residents was a consequence of the construction of the new highway.

n. the act of forcing someone or something to leave their home or place of origin, especially as a result of conflict, natural disaster, or manipulation

15. The evolution of processors has dramatically improved the performance of ____.

n. (abbreviation for artificial intelligence) the theory and development of computer systems capable of doing activities that would ordinarily need human intelligence, such as object recognition, speech recognition, decision-making, and language translation

ANSWERS: 8. amazing, 9. shark, 10. aim, 11. typical, 12. hydrophones, 13. advance, 14. displacement, 15. AI

16. We _____ a cease-fire.

v. to come to an end or close; to reach a judgment or opinion by reasoning

17. The beach was filled with hundreds of _____ so swimming was not recommended.

n. a marine creature with a soft, jelly-like body and tentacles for stinging

18. 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

19. Only the _____ God has the power to brighten this dark land.

adj. very large, powerful, or strong

20. The male _____ fertilizes the female egg.

n. the reproductive cell produced by a man or male animal

21. Overall _____ are approximately 400x200mm.

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

22. She has a thick southern _____.

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

23. _____ elections were held in several European countries.

adj. belonging to or used by a group rather than individuals; for common use

ANSWERS: 16. concluded, 17. jellyfish, 18. specific, 19. mighty, 20. sperm, 21. dimensions, 22. accent, 23. Communal

24. _____ a society is an organism.

adv. relating to the essential features or concepts of anything

25. This region has many _____ offering higher education.

n. an organization that has a specific purpose, particularly one dealing with science, education, or a particular profession; (verb) to initiate, introduce, or establish something

26. The _____ will repair my telephone tomorrow morning.

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

27. There are many cases of _____ cooperation in the animal kingdom.

adj. occurring between or involving different species; pertaining to interactions between different species

28. The restaurant has chefs who _____ in beef.

v. to become an expert in a specific career field, study, or business

29. He bated his _____ when talking about this affair.

n. the air that is taken into and expelled from your lungs; the process of taking into and expelling air from your lungs

30. It's important to understand the _____ of a situation before making a decision.

n. the circumstances, facts, or conditions that surround a particular event, situation, or statement and that give it meaning

31. The customer on the Internet has to choose one from a formidable _____ of products.

n. a large group or collection of things or people, especially one that is impressive or attractive

ANSWERS: 24. Essentially, 25. institutes, 26. engineer, 27. interspecies, 28. specialize, 29. breath, 30. context, 31. array

32. A powerful _____ motor is required to process these metal parts.
- n.* a rotating shaft that serves as axes for larger rotating parts; (biology) tiny fibers that are seen in cell division
33. The _____ is about 13.8 billion years old.
- n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
34. Many scientists study _____ behavior and intelligence.
- n.* any mammal of the order Primates, which includes monkeys, apes, and humans
35. Marketing strategies are growing more _____.
- adj.* having a great deal of worldly experience and knowledge of people's behavior, culture, and fashion
36. He that would eat the kernel must _____ the nut.
- v.* to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking
37. The final _____ of the symphony was breathtakingly beautiful.
- n.* the concluding part of a musical composition or movement, typically following the main body of the piece and serving as a conclusion; a concluding event or remark
38. Her _____ manner relaxed everyone there.
- adj.* having or showing a kindly or tender nature; soft and mild
39. 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

ANSWERS: 32. spindle, 33. universe, 34. primate, 35. sophisticated, 36. crack, 37. coda, 38. gentle, 39. emotions

40. The _____ spoken in the region differed from other parts of the country.
n. a form of a language that is spoken in a particular geographical area or by a particular group of people and has distinguishing characteristics
41. The newborn _____ stood on wobbly legs, trying to find its mother's milk.
n. a young cow, bull, or other domestic bovine animals
42. He heard a _____ of sirens roar from the neighboring town.
n. a low continuous humming noise; someone who takes more time than necessary; a pilot-less aerial vehicle that is operated by remote control
43. _____ ecosystems perform many essential environmental functions.
adj. growing or living in, on or near, or connected with water
44. I am _____ to waking up early for work.
adj. familiar with; used to; in the habit of; having become habituated to something, often a behavior or situation
45. Military technology eventually became the foundation for _____ technology that supported people's lives.
adj. of or relating to a subject of study, especially a science, that is used in a practical way
46. The _____ of the dancers on stage was graceful and elegant.
n. a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively
47. His heartaches are less _____ now.
adj. happening constantly

ANSWERS: 40. dialect, 41. calf, 42. drone, 43. Aquatic, 44. accustomed, 45. applied, 46. movement, 47. frequent

48. In junior high school, we had to dissect a frog in _____ class.
n. the scientific study of life and the natural processes of living things
49. In times of recession, an increase in unemployment is _____.
adj. certain to happen and unavoidable
50. The native South American animals were in danger because of the _____ arrival.
n. an animal whose natural behavior is to prey on others
51. The project's _____ made it difficult for the team to complete it on time.
n. the state or quality of being complicated or intricate and difficult to understand
52. 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
53. Most of the programs are _____ in this area.
v. to send out a program or some information on radio or television
54. She _____ the money from her savings account to her checking account.
v. to move, pass, or change from one person, place, or situation to another
55. Let's investigate the _____ of Latin.
n. the grammatical order or rule of words in a sentence
56. Though I love literature, I'm a bad _____.
n. a person who speaks several foreign languages; a person who studies or teaches languages or linguistics

ANSWERS: 48. biology, 49. inevitable, 50. predator's, 51. complexity, 52. structure, 53. broadcast, 54. transferred, 55. syntax, 56. linguist

57. The shark's powerful _____ allowed it to swim at high speeds.
- n.* a thin flat part on the body of a fish or other aquatic animal used for propulsion or balance
58. The cerebral _____ is responsible for higher brain functions such as decision-making and problem-solving.
- n.* the part of the cerebral cortex that is responsible for higher brain functions such as conscious thought and decision-making
59. The bankruptcy of the giant conglomerate _____ turmoil in the stock market.
- v.* to start something or make it grow, especially suddenly; to emit a tiny piece of fire or electricity
60. Her research team made an important _____.
- n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
61. The _____ view from the airplane showed the beautiful landscape below.
- n.* a type of acrobatics or gymnastics performed while suspended from hanging fabric or rings; a pass or shot in sports (particularly in soccer or volleyball) that is made while the player is in the air
62. _____ the text from Italian into English.
- v.* to convert or change words into another language
63. Sensors convert physical phenomena into _____ signals.
- adj.* processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet

ANSWERS: 57. fins, 58. neocortex, 59. sparked, 60. discovery, 61. aerial, 62. Translate, 63. digital

64. We do move forward with those tasks in _____ next week.
n. a series of related events, actions, numbers, etc., which have a particular order
65. Rebels sabotaged the main _____ supplying oil.
n. a very long large tube that is usually underground and is used for carrying liquid or gas for long distances
66. Some countries have a culture of eating the flesh of a _____.
n. a very large sea mammal that has a streamlined body and breathes through a blowhole on the head; a very large person; impressive in size or qualities
67. Seals and whales are _____ animals beloved by the people.
adj. relating to the sea and the creatures and plants that live there
68. The _____ disease can spread quickly and potentially cause a global pandemic.
adj. spreading very quickly, and often aggressively, and difficult to stop
69. The large group of _____ swam gracefully in the ocean, jumping out of the water now and then.
n. a marine mammal that typically has a beaklike snout, a streamlined body, and flippers and that feeds on fish and squid
70. They _____ pictures on the paper in preparation for the birthday card.
v. to increase, go up, or advance gradually or continuously; to prepare and supply with the necessary equipment for execution or performance; to ride on something or someone
71. We can evaluate the performance of an _____ in terms of computation time.
n. a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation

ANSWERS: 64. sequence, 65. pipeline, 66. whale, 67. marine, 68. invasive, 69. dolphins, 70. mounted, 71. algorithm

72. The _____ technology was revolutionary in its field.

adj. being at the forefront of a particular field or development; (noun) the latest or most advanced stage in the development of a specific type of work or activity

73. The speaker mounted the _____ and started to speak.

n. the raised flat space close to the track at a train station where passengers get on or off the train; (technology) a computational or digital environment in which a piece of software is executed

74. The advent of the Internet completely _____ the manufacturing industry.

v. to change the form or structure of something

75. His family is the oldest _____ of the island.

n. a person or an animal that lives in a particular place

76. The _____ of the dinosaurs is thought to have been caused by an asteroid impact.

n. the complete disappearance of a species from the earth

77. His father's death changed his whole _____ on life.

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

78. The painting's _____ composition and balance of colors made it a masterpiece.

adj. characterized by harmony or agreement; free from conflict or disagreement; pleasing or soothing in sound or tone

79. I need to _____ this document before I submit it.

v. to make notes or comments on a text or document

ANSWERS: 72. cutting-edge, 73. platform, 74. reshaped, 75. inhabitant, 76. extinction, 77. perspective, 78. harmonious, 79. annotate

80. The company is planning to make a _____ expansion of its factory.
adj. involving many people or things and involving a lot of change or activity
81. The _____ of scientists worked together to conduct research and make important discoveries.
n. an association of people who share common interests or goals, typically involving research, study, or a specific profession
82. She enjoyed the opportunity to _____ with a person who spoke her language.
v. to talk informally
83. The _____ reason for the company's success is its innovative products.
adj. most important, main, or chief
84. _____ thrive on the surface of the human skin.
n. a tiny living thing that can only be seen with a microscope and that may cause disease
85. The president began to _____ an army.
v. to collect in one place as a single group
86. He left the party in _____ at its radical political stance.
n. a strong expression of disagreement, disapproval, or opposition
87. The _____ approach to solving the problem involved experts from multiple fields working together.
adj. involving or combining several academic disciplines or fields of study

ANSWERS: 80. large-scale, 81. fellowship, 82. converse, 83. principal, 84. Microbes, 85. assemble, 86. protest, 87. interdisciplinary

88. 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
89. She agreed to _____ with him in creating new artwork.
- v.* to work with someone else to produce or achieve something
90. The different _____ of his personality make him a complex individual.
- n.* one of the many aspects or sides of a subject or situation, especially when seen from different angles or perspectives; a particular feature or characteristic of something
91. Mercury is the closest _____ to the sun.
- n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
92. With his _____ wealth, he could travel the world and indulge in his passions.
- adj.* newly discovered or acquired
93. I need to purchase a new English _____.
- n.* a reference book containing an alphabetical list of words and their definitions, as well as information about their origins, usage, and pronunciation
94. He recorded the _____ at the time of the incident.
- n.* a conversation in a book, play, or film
95. The teacher attempted to _____ the root cause of our mistake.
- v.* to think about in-depth and evaluate to discover essential features or meaning

ANSWERS: 88. dive, 89. collaborate, 90. facets, 91. planet, 92. newfound, 93. dictionary, 94. dialogue, 95. analyze

96. Dolphins use sound to _____ with each other.
- v.* to share or exchange information with others by speaking, writing, moving your body, or using other signals
97. The politician's solution to the problem was too _____ to solve the underlying issue.
- adj.* oversimplified or lacking in complexity or depth; characterized by an attempt to explain something complex or multifaceted with overly vague or simple terms
98. According to some cultural historians, ancient Egypt was a _____ for a brief period of time.
- n.* a social system in which women hold the primary power and authority, typically in a family or clan setting
99. The test results were _____ and showed improvement.
- adj.* giving hope, confidence, or support; inspiring
100. Marine _____ populations are declining worldwide due to ocean pollution.
- n.* any animal of which the female gives birth to live young, not eggs, and feeds her young on milk from her own body
101. The industrial _____ laws were passed with little to no alteration.
- n.* the way two persons or groups of people feel and act toward one another
102. A new study in _____ research showed that bilingualism delays the onset of dementia.
- n.* the study of language and its structure, including the study of grammar, syntax, and phonetics
103. We may frequently _____ age with the frequency of disease.
- v.* to have a connection or relationship in which one thing affects or depends on another

ANSWERS: 96. communicate, 97. simplistic, 98. matriarchy, 99. encouraging, 100. mammal, 101. relations, 102. linguistics, 103. correlate

104. 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

105. 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

106. Five of the six provinces will become _____ regions under the new federal system of government.

adj. capable of governing or controlling its affairs

107. He is the kind of _____ who only works for his success.

adj. someone who has the same job or interests as you, or is in the same class, profession, or situation as you

108. The training of a hawk was a _____ process.

adj. cautious and correct, and requiring a significant amount of effort

ANSWERS: 104. interaction, 105. develop, 106. autonomous, 107. fellow, 108. painstaking