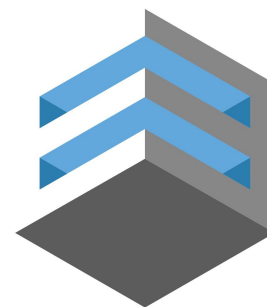


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Vocabulary Builder Reference from...

Jim Collins: How we're using AI to discover new antibiotics | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

novel

n. an extended fictional work in prose; usually in the form of a story; (adjective) original and of a kind not seen before

synonym: fiction, story, (adjective) innovative

(1) historical **novel**, (2) **novel** effect

The **novel** has largely gotten positive feedback.

coronavirus

n. a large family of viruses that can cause illness in humans and animals, which name comes from the crown-like spikes on the surface of the virus, which can be seen under a microscope, and COVID-19 is caused by a specific type of coronavirus known as SARS-CoV-2

synonym: covid

(1) **coronavirus** antibody test kit, (2) **coronavirus** bankruptcy

Considering the situation of **coronavirus**, organized stopped this year's beer festival.

lab

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

synonym: workshop, laboratory, research chamber

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

The Prime Minister will pay a courtesy visit to the Nobel

laureate's **lab**.

intelligence

n. the ability to learn, comprehend, or make judgments or conclusions based on reasons

synonym: brains, brightness, cleverness

(1) an **intelligence** test, (2) field of artificial **intelligence**

In terms of **intelligence**, he was head and shoulders above his classmates.

synthetic

adj. made by combining chemical substances as opposed to being naturally occurring

synonym: artificial, manufactured, fabricated

(1) **synthetic** fiber, (2) **synthetic** fertilizer

Synthetic diamonds play an essential role as machine tool blades.

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.

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.

origin

n. the first existence or beginning of something

synonym: root, source, ancestor

(1) **origin** of information, (2) racial **origin**

There are various hypotheses concerning the **origin** of life.

tackle

v. to try to deal with a complex problem or situation

synonym: deal with, dive into, work on

(1) **tackle** the issue, (2) help **tackle** climate change

The government is determined to **tackle** sharp inflation.

antibiotic

n. a substance or drug that kills or slows down the growth of bacteria

synonym: antimicrobial, chemotherapeutic, germicide

(1) **antibiotic** resistance, (2) **antibiotic** allergy

He has been prescribed an **antibiotic** to treat his infection.

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.

crisis

n. a time of great disagreement, confusion, or danger when problems must be resolved or critical decisions must be taken

synonym: concern, problem, emergency

(1) financial **crisis**, (2) **crisis** management

The Chinese word for **crisis** comprises two characters, one for danger and the other for opportunity.

harness

v. to control and exploit the power of something, especially natural resources that produce energy; (noun) a set of narrow pieces of leather and metal that are used to control or hold in place a person, animal, or object

synonym: rein in, control, (noun) belt

(1) **harness** a horse to a carriage, (2) put a **harness** on my pet

People have been exploring ways to **harness** natural forces and resources since ancient times.

replenish

v. to fill something that had previously been emptied

synonym: refill, reload, restock

(1) **replenish** a reserve fund, (2) **replenish** my spirit

Please **replenish** my glass with some more wine.

arsenal

n. a collection of weapons or military equipment stored in preparation for war or conflict; a collection of resources or tools available for use in a particular field or endeavor

synonym: storage, stockpile, armory

(1) **arsenal** of knowledge, (2) political **arsenal**

The police found a hidden **arsenal** of weapons in the suspect's house.

devastating

adj. causing a great deal of destruction or damage

synonym: destructive, annihilative, disastrous

(1) have **devastating** effects, (2) treat this **devastating** disease

This typhoon was the most **devastating** in years.

import

v. to bring goods or services into a country from another country; to transfer electronic data into a database or document;

synonym: bring, spell

(1) **import** goods, (2) **import** a style sheet

The company **imports** raw materials from other countries to manufacture its products.

antiviral

adj. inhibiting or stopping the growth and reproduction of viruses; (noun) any drug that destroys viruses

(1) **antiviral** effect, (2) an **antiviral** agent

The doctor immediately prescribed **antiviral** drugs.

compound

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

synonym: combination, mixture, blend

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

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

tradition

n. a belief, custom, or way of doing something that has been passed down from generation to generation within a group or society

synonym: custom, practice, ritual

(1) a **tradition** of a culture, (2) against **tradition**

It is a **tradition** in many families to have a big Thanksgiving dinner with all their relatives.

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**.

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.

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.

explore

v. to travel to or penetrate an area or a country to learn about it; to thoroughly examine a subject or a possibility to learn more about it

synonym: analyze, delve into, examine

(1) **explore** the world, (2) **explore** our options

The management must **explore** strategies to increase office security.

exponential

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

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

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

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.

synthesize

v. to combine a substance to make a more complex product or compound

synonym: incorporate, amalgamate

(1) **synthesize** molecules, (2) **synthesize** information

The spider can **synthesize** multiple different silk proteins.

needle

n. a thin, pointed object typically used for sewing or medical purposes; a metal or plastic instrument used for administering injections or drawing blood

synonym: thorn, spike, pin

(1) **needle** prick, (2) sewing **needle**

The acupuncturist inserted **needles** into specific points on my body to alleviate my pain.

haystack

n. a large mound of hay, usually stacked in a conical or cylindrical shape, used for animal feed or bedding

synonym: pile, heap, stack

(1) **haystack** fire, (2) lost in a **haystack**

The children played hide and seek in the **haystacks** in the barnyard.

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.

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.

compute

v. to make a mathematical calculation

synonym: calculate

(1) **compute** an average score, (2) **compute** the value

I tried to **compute** the efficiency of the investment.

simultaneously

adv. at the same time

synonym: concurrently, coincidentally, together

(1) **simultaneously** affected, (2) take several inputs

simultaneously

Two students answered the teacher's question

simultaneously.

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.

bacteria

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

synonym: microorganism, microbe

(1) pathogenic **bacteria**, (2) harmless **bacteria**

Bacteria prevalent in hospitals are often resistant to antibiotics.

infection

n. a condition in which pathogenic microorganisms or viruses have entered the body

synonym: contagion, disease, transmission

(1) a bacterial **infection**, (2) treat the **infection** with antibiotics

Hospitals must meet various standards to prevent nosocomial **infections**.

audacious

adj. showing a willingness to take bold risks or to do something that is considered unconventional or daring; marked by originality, creativity, or boldness

synonym: bold, daring, fearless

(1) **audacious** stunt, (2) **audacious** decision

The young entrepreneur had an **audacious** plan to start his own company.

approve

v. to think that someone or something is favorable, acceptable, or appropriate; to officially accept a plan, request, etc.

synonym: accept, authorize, agree

(1) **approve** a measures, (2) unanimously **approve** a resolution

My boss wouldn't **approve** of the plan.

massive

adj. enormous amount; very heavy and solid

synonym: enormous, giant, immense

(1) **massive** amounts, (2) **massive** stars

The recent economic downturn has resulted in **massive** layoffs.

pathogen

n. a bacterium, virus, or other microorganism that causes disease

synonym: germ, microbe, bacterium

(1) plant **pathogen**, (2) the **pathogen** in the air

mRNA vaccines are approved faster because they do not contain inactivated **pathogens**.

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.

quest

n. a long or challenging search for something

synonym: exploration, inquisition, pursuit

(1) the **quest** for truth, (2) on a **quest** for happiness

That adventurer traveled in **quest** of buried treasure.

medium

adj. of a size, amount, or level that is average or intermediate; (noun) a means or instrumentality for storing or communicating information

synonym: average, intermediate, (noun) channel

(1) **medium** color, (2) an advertising **medium**

The **medium** size shirt fits him perfectly.

pose

v. to present a risk, problem, or other issues that must be addressed

synonym: present, put, position

(1) **pose** a significant threat to my company, (2) **pose** a challenge

The chemicals **pose** a massive health risk.

immediate

adj. happening or done without delay or occurring shortly after something else

synonym: prompt, quick, instantaneous

(1) take **immediate** effect, (2) the **immediate** past

Both forts were subject to **immediate** attacks.

threat

n. a strong indication or likelihood of harm, danger, or adverse consequences; an expression of intent to inflict harm or injury on someone or something, often made as a means of coercion or intimidation

synonym: menace, danger, hazard

(1) economic **threat**, (2) environmental **threat**

The **threat** of severe weather prompted the city to issue an

evacuation warning.

excite

v. to make someone feel suddenly enthusiastic or eager

synonym: thrill, exhilarate, animate

(1) **excite** the crowd, (2) **excite** rebellion

The news of her promotion **excited** her.

therapeutic

adj. relating to or involved in the treatment of illness or injury

synonym: healing, remedial, curative

(1) **therapeutic** massage, (2) **therapeutic** administration

Yoga is known to have **therapeutic** benefits for the mind and body.

virus

n. a tiny infectious organic material that causes disease in people, animals, and plants

synonym: bacterium, germ, ailment

(1) spread of the **virus**, (2) a strain of **virus**

An infected person in the hospital will likely pass the **virus** to others.

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.

exhibit

v. to show something in public for people to enjoy or to provide them with information

synonym: display, expose, show

(1) **exhibit** a bad attitude, (2) **exhibit** a great talent

Other technology industries **exhibit** similarly explosive growth.

silicon

n. a chemical element with the symbol Si that is a hard, brittle crystalline solid with a blue-grey metallic luster

and used for the transistors and integrated circuit chips in computers

(1) **silicon** wafer, (2) crystalline **silicon**

Silicon is the second most abundant element on earth after oxygen.

prediction

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

synonym: forecast, anticipation, foretelling

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

These results muddled the **prediction**.

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.

candid

adj. honest, straightforward, and frank in someone's words or actions

synonym: honest, frank, straightforward

(1) **candid** conversation, (2) in my **candid** opinion

The **candid** photography captured the genuine emotions of the moment.

clinic

n. a building or hospital department where people can go for medical care or advice, especially of a particular condition

synonym: hospital, infirmary

(1) visit to the veterinary **clinic**, (2) a dental **clinic**

She holds a **clinic** on Tuesday mornings.

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**.

proof

n. a fact or piece of information that shows something is true or exists

synonym: testimony, evidence, assurance

(1) documentary **proof**, (2) a geometric **proof**

Proof is better than argument.

concept

n. an idea or principle associated with something abstract

synonym: idea, notion, vision

(1) learn new **concepts**, (2) **concept** car

One such rapidly growing **concept** is quantum cryptography.

broad

adj. very wide; general

synonym: wide, expansive, comprehensive

(1) attract **broad** attention, (2) a **broad** mind

He accumulated wealth across a **broad** spectrum of assets.

spectrum

n. an ordered array of colors into which a light beam can be split

synonym: range, scale, spread

(1) a broad **spectrum** of opinion, (2) infrared **spectrum**

This device displayed the speech **spectrum** spectrographically.

halicin

n. a type of antibiotic that was discovered through machine learning methods effective against a wide range of bacteria, including some that have become resistant to all known antibiotics

synonym: antibiotic, antibacterial, antimicrobial

(1) efficacy of **halicin**, (2) **halicin** resistance

Several clinical trials are currently underway to test the

efficacy of **halicin** in humans.

resistant

adj. not affected by something, especially changes or new ideas; of or relating to immunity to disease or infection

synonym: unsusceptible, immune, invulnerable

(1) penicillin- **resistant** bacteria, (2) **resistant** to persuasion
Insects in urban areas are becoming **resistant** to insecticides.

treatment

n. the way in which someone deals with or behaves towards someone or something; medical care provided to a patient for an injury or illness.

synonym: remedy, antidote, medicine

(1) first-aid **treatment**, (2) **treatment** by diet
The primary purpose of the **treatment** is pain relief.

contrast

v. to put in opposition to show or emphasize differences

synonym: differ, vary, counterpoint

(1) **contrast** with a decade ago, (2) **contrast** two things
It's intriguing to compare and **contrast** the two authors.

frequency

n. an ordered array of colors into which a light beam can be split

synonym: recurrence, repetition, regularity

(1) **frequency** band, (2) high **frequency**
The oscillator hunts for the correct **frequency**.

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.

remarkable

adj. worthy of attention because unusual or special

synonym: outstanding, exceptional, extraordinary

(1) **remarkable** achievement, (2) the **remarkable** breadth of knowledge

The election was a **remarkable** success for the Whigs.

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.

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.

pilot

n. a person who flies an aircraft, especially as a job; a person qualified to guide ships through a difficult area of water

synonym: aviator, flyer, chief

(1) a test **pilot**, (2) **pilot** production

The **pilot** exercised great care in landing.

roughly

adv. approximately but not precisely; with a violent manner

synonym: approximately, more or less, around

(1) **roughly** explain my idea, (2) **roughly** speaking

Five miles is **roughly** similar to eight kilometers.

coli

n. a bacterium of the genus *Escherichia* that is commonly found in the human gut and is used as a model organism in molecular biology and biochemistry

(1) E. **coli** bacteria strain, (2) **coli** cells

The study of *Escherichia coli* has led to important advancements in areas such as antibiotic resistance, gut

microbiome, and synthetic biology.

penicillin

n. an antibiotic drug derived from mold and used to treat bacterial infections

synonym: antibiotic, bacitracin

(1) **penicillin** allergy, (2) **penicillin** sensitivity testing

The doctor prescribed **penicillin** to treat the bacterial infection.

molecular

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

synonym: microscopic, atomic

(1) **molecular** structure, (2) **molecular** biology

Molecular weight is the sum of all the atoms.

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.

associate

v. to mentally connect someone or something with someone or something else

synonym: tie in, link, consociate

(1) **associate** alcohol with gambling, (2) **associate** with people widely

The majority of consumers **associate** this brand with quality.

repurpose

v. to use something again for a different purpose than it was originally intended

synonym: reutilize, recycle, reuse

(1) **repurpose** an old building, (2) **repurpose** a used car

The old barn was **repurposed** into a modern event space.

consist

v. to be composed or made up of

synonym: lie in, comprise, exist

(1) **consist** mainly of cells, (2) **consist** only in knowing facts

This examination **consists** of five problems to solve.

identify

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

synonym: determine, specify, recognize

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

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

predict

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

synonym: forecast, anticipate, foresee

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

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

criteria

n. (plural of criterion) standards or conditions by which something may be judged or decided

synonym: bars, benchmarks, standards

(1) **criteria** for action, (2) consistency **criteria**

He didn't meet all the **criteria**, but he was hired anyway.

tinker

v. to make repairs, adjustments, or improvements to something, especially in an experimental or makeshift way

synonym: fiddle, play, fix

(1) **tinker** with the bill, (2) **tinker** with the settings

He spent the afternoon **tinkering** with his car engine.

cellular

adj. of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires

synonym: organic, biological, nuclear

(1) **cellular** and molecular biology, (2) a **cellular** phone handset

This factory employs a **cellular** manufacturing system.

machinery

n. a group of large machines or the components of a machine that make it work; social institution functions or structure for doing something

synonym: apparatus, appliance, equipment

(1) heavy **machinery**, (2) inactive **machinery**

The **machinery** of audit formally issued a business improvement order.

mask

v. to conceal something; (noun) a covering that you wear over your face to hide it

synonym: disguise, camouflage, conceal

(1) **mask** body odor, (2) an oxygen **mask**

The politician tried to **mask** the corruption.

diagnose

v. to determine or distinguish the nature of a problem or an illness through a careful analysis

synonym: identify, analyze, interpret

(1) **diagnose** the problem, (2) **diagnose** with CT scans

This device is used to **diagnose** brain cancer and other tumors.

freeze-dry

v. a method of preserving food or other substances by freezing them and then rapidly removing the frozen water by sublimation, creating a dried product that can be reconstituted by adding water

synonym: dehydrate, dry freeze, lyophilize

(1) **freeze-dry** fruit, (2) **freeze-dry** the strawberries

To preserve the freshness of my vegetables, I like to **freeze-dry** them before storing them.

sensor

n. a device that receives a signal or stimulus such as heat, pressure, light, motion, etc. and responds to it in a specific manner

synonym: detector

(1) motion **sensor** lighting, (2) an image **sensor**

This automatic door could no longer be opened due to a **sensor** failure.

hydrate

- v.* to add water or moisture to something; to drink enough fluids to maintain proper moisture; (noun) any compound that contains water of crystallization

synonym: moisturize, water, rehydrate

(1) **hydrate** my skin, (2) acid **hydrate**

She drank water to **hydrate** her body.

patient

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

synonym: client, recipient, subject

(1) **patient** in the hospital, (2) **patient** with weight loss

The doctor carefully examined the **patient's** medical history.

saliva

- n.* the clear liquid that is secreted into the mouth by glands in the walls of the mouth and throat, helping to lubricate food during chewing and digestion

synonym: spit, drool, slobber

(1) dog's **saliva**, (2) dry mouth with little **saliva**

The dentist asked him to spit out the excess **saliva** into the sink.

detect

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

synonym: catch, observe, notice

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

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

fabric

- n.* cloth or other material produced by weaving wool, cotton, silk, etc., used for making clothes, covering furniture, etc.

synonym: cloth, material, goods

(1) a hand-loomed **fabric**, (2) **fabric** of creation

These synthetic **fabrics** are used in military vests because of their excellent abrasion resistance.

vapor

n. a mass of tiny liquid drops in the air

synonym: condensation, dew, fog

(1) alcohol **vapor**, (2) water **vapor** in the atmosphere

Clouds form when water **vapor** rises to the upper atmosphere.

infect

v. to affect a person, an animal, or a plant with a disease-causing organism

synonym: pollute, contaminate, affect

(1) **infect** other animal species, (2) **infect** a computer with a virus

Children often **infect** parents with this head cold.

fluorescent

adj. emitting or reflecting vibrant and vivid light, especially under ultraviolet light; describing a type of lamp or bulb that produces such light

synonym: luminescent, phosphorescent, radiant

(1) **fluorescent** bulb, (2) **fluorescent** material

The office installed new **fluorescent** lighting to save energy.

inexpensive

adj. costing little; having a low price

synonym: cheap, affordable, economical

(1) **inexpensive** option, (2) an **inexpensive** inn

The restaurant offered delicious food at an **inexpensive** price.

handheld

adj. designed to be held in one hand; portable, and compact enough to be carried or used on the go

synonym: portable, mobile, compact

(1) **handheld** device, (2) **handheld** camera

The technician used a **handheld** tool to fix the machine.

device

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

synonym: gadget, instrument, tool

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

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

remotely

adv. at a distance; not directly or easily accessible

synonym: distantly, remotely, slightly

(1) **remotely** operate, (2) control **remotely**

The company can **remotely** access its employees' computers for troubleshooting purposes.

accurate

adj. correct and exact in all details

synonym: exact, precise, proper

(1) provide **accurate** information, (2) **accurate** measurements

The official transcript contains **accurate** academic records.

vaccine

n. a substance that is put into the body and protects them from disease by causing them to produce antibodies (= proteins that attack harmful bacteria, viruses, etc.)

synonym: vaccinum

(1) development of **vaccines**, (2) an oral **vaccine**

The mRNA **vaccine** was approved in less than a year because it did not contain the fragments of the target virus.

attenuate

v. to weaken or reduce the intensity of something, such as a sound, feeling, or substance; to make something thinner or less dense

synonym: weaken, reduce, diminish

(1) **attenuate** the signal, (2) **attenuate** the power

The scientist was able to **attenuate** the virus by altering its genetic code.

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.

antigen

n. a substance that triggers the body's immune response (= the reaction for fighting infections) for defending the body, especially by producing antibodies (= proteins that identify and attack harmful bacteria, viruses, etc.)

(1) detect **antigen**, (2) viral **antigen**

Antigen testing is less accurate than PCR testing but easier to perform.

trigger

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

synonym: activate, spark, drive

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

The incident **triggered** a political controversy.

antibody

n. a substance produced in the blood that attacks and kills harmful bacteria, viruses, etc., to fight disease

(1) produce **antibody**, (2) **antibody** against bacteria

This pharmaceutical company is developing **antibody** drugs with fewer side effects.

immune

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

synonym: resistant, unsusceptible, unaffected

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

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

scalable

adj. capable of being easily expanded or increased in size, number, or scale to meet changing demands

synonym: expandable, flexible, adjustable

(1) **scalable** solution, (2) dynamically **scalable**

The company's new software is highly **scalable**, allowing it to handle increasing number of users.

advantage

n. a condition or circumstance that puts one in a favorable or superior position; a beneficial feature or asset that someone or something has

synonym: benefit, edge, asset

(1) score an **advantage**, (2) take **advantage** of his weak points

One of the main **advantages** of the new product is its increased efficiency.

wit

n. the ability to say or write things or ideas in a clever and humorous way

synonym: humor, comedy, funniness

(1) the **wit** of man, (2) full of **wit**

He has the **wit** to keep talking about this topic.

superbug

n. a strain of bacteria that is resistant to multiple types of antibiotics, making it difficult or impossible to treat with traditional medications

synonym: super bacteria, antibiotic-resistant bacteria

(1) **superbug** outbreak, (2) **superbug** infection

The hospital is battling a **superbug** that is resistant to antibiotics.

Session 2: Spelling

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|-----------------------------------|--|
| 1. re_____se an old building | <i>v.</i> to use something again for a different purpose than it was originally intended |
| 2. infrared sp_____um | <i>n.</i> an ordered array of colors into which a light beam can be split |
| 3. co_____st with a decade ago | <i>v.</i> to put in opposition to show or emphasize differences |
| 4. p__e a challenge | <i>v.</i> to present a risk, problem, or other issues that must be addressed |
| 5. co_____t only in knowing facts | <i>v.</i> to be composed or made up of |
| 6. environmental th____t | <i>n.</i> a strong indication or likelihood of harm, danger, or adverse consequences; an expression of intent to inflict harm or injury on someone or something, often made as a means of coercion or intimidation |
| 7. AI expert | <i>n.</i> (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 |
| 8. or____n of information | <i>n.</i> the first existence or beginning of something |
| 9. a broad sp_____um of opinion | <i>n.</i> an ordered array of colors into which a light beam can be split |

ANSWERS: 1. repurpose, 2. spectrum, 3. contrast, 4. pose, 5. consist, 6. threat, 7. AI, 8. origin, 9. spectrum

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|------------------------------------|---|
| 10. mo_____ar biology | <i>adj.</i> of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds) |
| 11. the_____ic massage | <i>adj.</i> relating to or involved in the treatment of illness or injury |
| 12. col_____te on a press release | <i>v.</i> to work with someone else to produce or achieve something |
| 13. an_____dy against bacteria | <i>n.</i> a substance produced in the blood that attacks and kills harmful bacteria, viruses, etc., to fight disease |
| 14. intellectual f__t | <i>n.</i> a notable or impressive achievement, especially one that requires great skill or bravery |
| 15. cr___s management | <i>n.</i> a time of great disagreement, confusion, or danger when problems must be resolved or critical decisions must be taken |
| 16. tracking de___e | <i>n.</i> a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic |
| 17. pen_____in sensitivity testing | <i>n.</i> an antibiotic drug derived from mold and used to treat bacterial infections |
| 18. hy_____e my skin | <i>v.</i> to add water or moisture to something; to drink enough fluids to maintain proper moisture; (noun) any compound that contains water of crystallization |
| 19. id_____fy handwriting | <i>v.</i> to recognize someone or something and say or prove who or what they are |

ANSWERS: 10. molecular, 11. therapeutic, 12. collaborate, 13. antibody, 14. feat, 15. crisis, 16. device, 17. penicillin, 18. hydrate, 19. identify

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| 20. a ce____ar phone handset | <i>adj.</i> of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires |
| 21. the pa____en in the air | <i>n.</i> a bacterium, virus, or other microorganism that causes disease |
| 22. medical l_b | <i>n.</i> a workplace for the conduct of scientific research; a laboratory |
| 23. global pa____ic | <i>n.</i> an outbreak of a disease that affects many people over a very wide area |
| 24. ar____l of knowledge | <i>n.</i> a collection of weapons or military equipment stored in preparation for war or conflict; a collection of resources or tools available for use in a particular field or endeavor |
| 25. ex____e the world | <i>v.</i> to travel to or penetrate an area or a country to learn about it; to thoroughly examine a subject or a possibility to learn more about it |
| 26. the cell of the im____e system | <i>adj.</i> protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells |
| 27. tr____r inflation | <i>v.</i> to make something happen suddenly; to cause something such as a device, machine, etc. to function |
| 28. ne____e prick | <i>n.</i> a thin, pointed object typically used for sewing or medical purposes; a metal or plastic instrument used for administering injections or drawing blood |

ANSWERS: 20. cellular, 21. pathogen, 22. lab, 23. pandemic, 24. arsenal, 25. explore, 26. immune, 27. trigger, 28. needle

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|-----------------------------------|---|
| 29. penicillin-re_____nt bacteria | <i>adj.</i> not affected by something, especially changes or new ideas; of or relating to immunity to disease or infection |
| 30. sy_____ic fiber | <i>adj.</i> made by combining chemical substances as opposed to being naturally occurring |
| 31. ma_____e stars | <i>adj.</i> enormous amount; very heavy and solid |
| 32. ex_____t a great talent | <i>v.</i> to show something in public for people to enjoy or to provide them with information |
| 33. economic th____t | <i>n.</i> a strong indication or likelihood of harm, danger, or adverse consequences; an expression of intent to inflict harm or injury on someone or something, often made as a means of coercion or intimidation |
| 34. cor_____us bankruptcy | <i>n.</i> a large family of viruses that can cause illness in humans and animals, which name comes from the crown-like spikes on the surface of the virus, which can be seen under a microscope, and COVID-19 is caused by a specific type of coronavirus known as SARS-CoV-2 |
| 35. me____m color | <i>adj.</i> of a size, amount, or level that is average or intermediate; (noun) a means or instrumentality for storing or communicating information |
| 36. provide ac_____te information | <i>adj.</i> correct and exact in all details |
| 37. in____t other animal species | <i>v.</i> to affect a person, an animal, or a plant with a disease-causing organism |

ANSWERS: 29. resistant, 30. synthetic, 31. massive, 32. exhibit, 33. threat, 34. coronavirus, 35. medium, 36. accurate, 37. infect

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| 38. ma____e amounts | <i>adj.</i> enormous amount; very heavy and solid |
| 39. ad____e the technology | <i>v.</i> to go or move forward; to develop in a positive way |
| 40. au____us stunt | <i>adj.</i> showing a willingness to take bold risks or to do something that is considered unconventional or daring; marked by originality, creativity, or boldness |
| 41. su____ug outbreak | <i>n.</i> a strain of bacteria that is resistant to multiple types of antibiotics, making it difficult or impossible to treat with traditional medications |
| 42. ce____ar and molecular biology | <i>adj.</i> of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires |
| 43. take ad____ge of his weak points | <i>n.</i> a condition or circumstance that puts one in a favorable or superior position; a beneficial feature or asset that someone or something has |
| 44. a geometric pr__f | <i>n.</i> a fact or piece of information that shows something is true or exists |
| 45. ca____d conversation | <i>adj.</i> honest, straightforward, and frank in someone's words or actions |
| 46. co____t mainly of cells | <i>v.</i> to be composed or made up of |
| 47. im____t a style sheet | <i>v.</i> to bring goods or services into a country from another country; to transfer electronic data into a database or document; |

ANSWERS: 38. massive, 39. advance, 40. audacious, 41. superbug, 42. cellular, 43. advantage, 44. proof, 45. candid, 46. consist, 47. import

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| 48. a pai_____ng student | <i>adj.</i> cautious and correct, and requiring a significant amount of effort |
| 49. at_____te the signal | <i>v.</i> to weaken or reduce the intensity of something, such as a sound, feeling, or substance; to make something thinner or less dense |
| 50. crystalline si_____n | <i>n.</i> a chemical element with the symbol Si that is a hard, brittle crystalline solid with a blue-grey metallic luster and used for the transistors and integrated circuit chips in computers |
| 51. rem_____le achievement | <i>adj.</i> worthy of attention because unusual or special |
| 52. im____t goods | <i>v.</i> to bring goods or services into a country from another country; to transfer electronic data into a database or document; |
| 53. pa_____t with weight loss | <i>n.</i> a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic |
| 54. take several inputs sim_____sly | <i>adv.</i> at the same time |
| 55. the great di_____ry of the century | <i>n.</i> the act or process of finding information, a place, or an object, or learning about something that was previously not known |
| 56. re_____ly operate | <i>adv.</i> at a distance; not directly or easily accessible |

ANSWERS: 48. painstaking, 49. attenuate, 50. silicon, 51. remarkable, 52. import, 53. patient, 54. simultaneously, 55. discovery, 56. remotely

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| 57. documentary pr__f | <i>n.</i> a fact or piece of information that shows something is true or exists |
| 58. an image se___r | <i>n.</i> a device that receives a signal or stimulus such as heat, pressure, light, motion, etc. and responds to it in a specific manner |
| 59. detect an_____n | <i>n.</i> a substance that triggers the body's immune response (= the reaction for fighting infections) for defending the body, especially by producing antibodies (= proteins that identify and attack harmful bacteria, viruses, etc.) |
| 60. ex___e the crowd | <i>v.</i> to make someone feel suddenly enthusiastic or eager |
| 61. re_____sh a reserve fund | <i>v.</i> to fill something that had previously been emptied |
| 62. unanimously ap_____e a resolution | <i>v.</i> to think that someone or something is favorable, acceptable, or appropriate; to officially accept a plan, request, etc. |
| 63. permanent ma____t | <i>n.</i> an object or substance that can attract certain materials, such as iron or steel |
| 64. water va__r in the atmosphere | <i>n.</i> a mass of tiny liquid drops in the air |
| 65. im___e from criminal prosecution | <i>adj.</i> protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells |
| 66. c__i cells | <i>n.</i> a bacterium of the genus <i>Escherichia</i> that is commonly found in the human gut and is used as a model organism in molecular biology and biochemistry |

ANSWERS: 57. proof, 58. sensor, 59. antigen, 60. excite, 61. replenish, 62. approve, 63. magnet, 64. vapor, 65. immune, 66. coli

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| 67. treat the in_____on with antibiotics | <i>n.</i> a condition in which pathogenic microorganisms or viruses have entered the body |
| 68. syn_____ze molecules | <i>v.</i> to combine a substance to make a more complex product or compound |
| 69. pa_____t in the hospital | <i>n.</i> a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic |
| 70. the im_____te past | <i>adj.</i> happening or done without delay or occurring shortly after something else |
| 71. aquatic co_____nd | <i>n.</i> an item composed of two or more distinct elements combined; a chemical formed by the combination of two or more elements |
| 72. pi__t production | <i>n.</i> a person who flies an aircraft, especially as a job; a person qualified to guide ships through a difficult area of water |
| 73. visit to the veterinary cl____c | <i>n.</i> a building or hospital department where people can go for medical care or advice, especially of a particular condition |
| 74. on a qu__t for happiness | <i>n.</i> a long or challenging search for something |
| 75. electronic de____e | <i>n.</i> a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic |

ANSWERS: 67. infection, 68. synthesize, 69. patient, 70. immediate, 71. compound, 72. pilot, 73. clinic, 74. quest, 75. device

76. treat this dev_____ng disease *adj.* causing a great deal of destruction or damage
77. an an_____al agent *adj.* inhibiting or stopping the growth and reproduction of viruses; (noun) any drug that destroys viruses
78. an oral va_____e *n.* a substance that is put into the body and protects them from disease by causing them to produce antibodies (= proteins that attack harmful bacteria, viruses, etc.)
79. ev____e over the past decade *v.* to develop gradually, or to cause the development of something or someone gradually
80. mo_____ar structure *adj.* of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds)
81. sewing ne____e *n.* a thin, pointed object typically used for sewing or medical purposes; a metal or plastic instrument used for administering injections or drawing blood
82. ro_____y explain my idea *adv.* approximately but not precisely; with a violent manner
83. plant pa_____en *n.* a bacterium, virus, or other microorganism that causes disease
84. against tr_____on *n.* a belief, custom, or way of doing something that has been passed down from generation to generation within a group or society

ANSWERS: 76. devastating, 77. antiviral, 78. vaccine, 79. evolve, 80. molecular, 81. needle, 82. roughly, 83. pathogen, 84. tradition

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| 85. pen_____in allergy | <i>n.</i> an antibiotic drug derived from mold and used to treat bacterial infections |
| 86. re_____nt to persuasion | <i>adj.</i> not affected by something, especially changes or new ideas; of or relating to immunity to disease or infection |
| 87. the qu__t for truth | <i>n.</i> a long or challenging search for something |
| 88. mo_____le behavior | <i>n.</i> a group of two or more atoms held together by attractive forces known as chemical bonds |
| 89. an advertising me___m | <i>adj.</i> of a size, amount, or level that is average or intermediate; (noun) a means or instrumentality for storing or communicating information |
| 90. full of w_t | <i>n.</i> the ability to say or write things or ideas in a clever and humorous way |
| 91. racial or___n | <i>n.</i> the first existence or beginning of something |
| 92. an ine_____ve inn | <i>adj.</i> costing little; having a low price |
| 93. en_____er shortage | <i>n.</i> a person whose job is designing, building, or maintaining something such as machines, structures, or software |
| 94. flu_____nt material | <i>adj.</i> emitting or reflecting vibrant and vivid light, especially under ultraviolet light; describing a type of lamp or bulb that produces such light |
| 95. become ess_____ly same | <i>adv.</i> relating to the essential features or concepts of anything |

ANSWERS: 85. penicillin, 86. resistant, 87. quest, 88. molecule, 89. medium, 90. wit, 91. origin, 92. inexpensive, 93. engineer, 94. fluorescent, 95. essentially

96. gi__t trees	<i>adj.</i> enormous; much bigger or more important than similar items usually are
97. fr_____cy band	<i>n.</i> an ordered array of colors into which a light beam can be split
98. ad_____e a cooperative relationship	<i>v.</i> to go or move forward; to develop in a positive way
99. su_____ug infection	<i>n.</i> a strain of bacteria that is resistant to multiple types of antibiotics, making it difficult or impossible to treat with traditional medications
100. in____t a computer with a virus	<i>v.</i> to affect a person, an animal, or a plant with a disease-causing organism
101. help ta____e climate change	<i>v.</i> to try to deal with a complex problem or situation
102. cor_____us antibody test kit	<i>n.</i> a large family of viruses that can cause illness in humans and animals, which name comes from the crown-like spikes on the surface of the virus, which can be seen under a microscope, and COVID-19 is caused by a specific type of coronavirus known as SARS-CoV-2
103. ess_____ly correct	<i>adv.</i> relating to the essential features or concepts of anything
104. ro_____y speaking	<i>adv.</i> approximately but not precisely; with a violent manner
105. m__k body odor	<i>v.</i> to conceal something; (noun) a covering that you wear over your face to hide it
106. a hand-loomed fa____c	<i>n.</i> cloth or other material produced by weaving wool, cotton, silk, etc., used for making clothes, covering furniture, etc.

ANSWERS: 96. giant, 97. frequency, 98. advance, 99. superbug, 100. infect, 101. tackle, 102. coronavirus, 103. essentially, 104. roughly, 105. mask, 106. fabric

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| 107. spread of the vi__s | <i>n.</i> a tiny infectious organic material that causes disease in people, animals, and plants |
| 108. a tr_____on of a culture | <i>n.</i> a belief, custom, or way of doing something that has been passed down from generation to generation within a group or society |
| 109. a test pi__t | <i>n.</i> a person who flies an aircraft, especially as a job; a person qualified to guide ships through a difficult area of water |
| 110. make my pre_____ons | <i>n.</i> the act of predicting the future by reasoning; a statement made about the future |
| 111. historical co_____t | <i>n.</i> the circumstances, facts, or conditions that surround a particular event, situation, or statement and that give it meaning |
| 112. gloomy pre_____ons | <i>n.</i> the act of predicting the future by reasoning; a statement made about the future |
| 113. re_____sh my spirit | <i>v.</i> to fill something that had previously been emptied |
| 114. alcohol va__r | <i>n.</i> a mass of tiny liquid drops in the air |
| 115. fre_____ry the strawberries | <i>v.</i> a method of preserving food or other substances by freezing them and then rapidly removing the frozen water by sublimation, creating a dried product that can be reconstituted by adding water |

ANSWERS: 107. virus, 108. tradition, 109. pilot, 110. prediction, 111. context, 112. prediction, 113. replenish, 114. vapor, 115. freeze-dry

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| 116. no__l effect | <i>n.</i> an extended fictional work in prose; usually in the form of a story; (adjective) original and of a kind not seen before |
| 117. at_____te the power | <i>v.</i> to weaken or reduce the intensity of something, such as a sound, feeling, or substance; to make something thinner or less dense |
| 118. ha_____n resistance | <i>n.</i> a type of antibiotic that was discovered through machine learning methods effective against a wide range of bacteria, including some that have become resistant to all known antibiotics |
| 119. pr_____t the future | <i>v.</i> to state beforehand that something will happen in the future, mainly based on knowledge or experience |
| 120. E. c__i bacteria strain | <i>n.</i> a bacterium of the genus Escherichia that is commonly found in the human gut and is used as a model organism in molecular biology and biochemistry |
| 121. ha_____s a horse to a carriage | <i>v.</i> to control and exploit the power of something, especially natural resources that produce energy; (noun) a set of narrow pieces of leather and metal that are used to control or hold in place a person, animal, or object |
| 122. am_____g advances | <i>adj.</i> extremely surprising, especially in a way that you like or admire |
| 123. di_____se the problem | <i>v.</i> to determine or distinguish the nature of a problem or an illness through a careful analysis |

ANSWERS: 116. novel, 117. attenuate, 118. halicin, 119. predict, 120. coli, 121. harness, 122. amazing, 123. diagnose

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| 124. small mo____les | <i>n.</i> a group of two or more atoms held together by attractive forces known as chemical bonds |
| 125. evolutionary bi____y | <i>n.</i> the scientific study of life and the natural processes of living things |
| 126. an int_____nce test | <i>n.</i> the ability to learn, comprehend, or make judgments or conclusions based on reasons |
| 127. high fr_____cy | <i>n.</i> an ordered array of colors into which a light beam can be split |
| 128. de____p a strategy | <i>v.</i> to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created |
| 129. put a ha____s on my pet | <i>v.</i> to control and exploit the power of something, especially natural resources that produce energy; (noun) a set of narrow pieces of leather and metal that are used to control or hold in place a person, animal, or object |
| 130. an_____al effect | <i>adj.</i> inhibiting or stopping the growth and reproduction of viruses; (noun) any drug that destroys viruses |
| 131. the most am____g feeling | <i>adj.</i> extremely surprising, especially in a way that you like or admire |
| 132. syn_____ze information | <i>v.</i> to combine a substance to make a more complex product or compound |

ANSWERS: 124. molecule, 125. biology, 126. intelligence, 127. frequency, 128. develop, 129. harness, 130. antiviral, 131. amazing, 132. synthesize

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| 133. as_____te alcohol with gambling | <i>v.</i> to mentally connect someone or something with someone or something else |
| 134. pathogenic ba_____ia | <i>n.</i> single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease |
| 135. a civil en_____er | <i>n.</i> a person whose job is designing, building, or maintaining something such as machines, structures, or software |
| 136. learn new co_____ts | <i>n.</i> an idea or principle associated with something abstract |
| 137. flu pa_____ic | <i>n.</i> an outbreak of a disease that affects many people over a very wide area |
| 138. gi__t tech company | <i>adj.</i> enormous; much bigger or more important than similar items usually are |
| 139. lost in a ha_____ck | <i>n.</i> a large mound of hay, usually stacked in a conical or cylindrical shape, used for animal feed or bedding |
| 140. ine_____ve option | <i>adj.</i> costing little; having a low price |
| 141. exp_____al growth | <i>adj.</i> becoming more and more rapid; of or involving mathematical exponents |
| 142. ha_____ck fire | <i>n.</i> a large mound of hay, usually stacked in a conical or cylindrical shape, used for animal feed or bedding |
| 143. ap_____e a measures | <i>v.</i> to think that someone or something is favorable, acceptable, or appropriate; to officially accept a plan, request, etc. |

ANSWERS: 133. associate, 134. bacteria, 135. engineer, 136. concept, 137. pandemic, 138. giant, 139. haystack, 140. inexpensive, 141. exponential, 142. haystack, 143. approve

144. inactive ma_____ry *n.* a group of large machines or the components of a machine that make it work; social institution functions or structure for doing something
145. the rem_____le breadth of knowledge *adj.* worthy of attention because unusual or special
146. fre_____ry fruit *v.* a method of preserving food or other substances by freezing them and then rapidly removing the frozen water by sublimation, creating a dried product that can be reconstituted by adding water
147. harmless ba_____ia *n.* single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease
148. ant_____ic allergy *n.* a substance or drug that kills or slows down the growth of bacteria
149. score an ad_____ge *n.* a condition or circumstance that puts one in a favorable or superior position; a beneficial feature or asset that someone or something has
150. political ar_____l *n.* a collection of weapons or military equipment stored in preparation for war or conflict; a collection of resources or tools available for use in a particular field or endeavor
151. attract br__d attention *adj.* very wide; general

ANSWERS: 144. machinery, 145. remarkable, 146. freeze-dry, 147. bacteria, 148. antibiotic, 149. advantage, 150. arsenal, 151. broad

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| 152. field of artificial int_____nce | <i>n.</i> the ability to learn, comprehend, or make judgments or conclusions based on reasons |
| 153. control re_____ly | <i>adv.</i> at a distance; not directly or easily accessible |
| 154. dry mouth with little sa____a | <i>n.</i> the clear liquid that is secreted into the mouth by glands in the walls of the mouth and throat, helping to lubricate food during chewing and digestion |
| 155. efficacy of ha_____n | <i>n.</i> a type of antibiotic that was discovered through machine learning methods effective against a wide range of bacteria, including some that have become resistant to all known antibiotics |
| 156. a dental cl____c | <i>n.</i> a building or hospital department where people can go for medical care or advice, especially of a particular condition |
| 157. ta____e the issue | <i>v.</i> to try to deal with a complex problem or situation |
| 158. di_____se with CT scans | <i>v.</i> to determine or distinguish the nature of a problem or an illness through a careful analysis |
| 159. co_____e the value | <i>v.</i> to make a mathematical calculation |
| 160. sim_____sly affected | <i>adv.</i> at the same time |
| 161. dynamically sc_____le | <i>adj.</i> capable of being easily expanded or increased in size, number, or scale to meet changing demands |

ANSWERS: 152. intelligence, 153. remotely, 154. saliva, 155. halicin, 156. clinic, 157. tackle, 158. diagnose, 159. compute, 160. simultaneously, 161. scalable

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| 162. co____e an average score | <i>v.</i> to make a mathematical calculation |
| 163. re_____se a used car | <i>v.</i> to use something again for a different purpose than it was originally intended |
| 164. a bacterial in_____on | <i>n.</i> a condition in which pathogenic microorganisms or viruses have entered the body |
| 165. ev___e | <i>v.</i> to develop gradually, or to cause the development of something or someone gradually |
| 166. ha_____ld camera | <i>adj.</i> designed to be held in one hand; portable, and compact enough to be carried or used on the go |
| 167. development of va_____es | <i>n.</i> a substance that is put into the body and protects them from disease by causing them to produce antibodies (= proteins that attack harmful bacteria, viruses, etc.) |
| 168. consistency cr_____ia | <i>n.</i> (plural of criterion) standards or conditions by which something may be judged or decided |
| 169. res_____ce movement | <i>n.</i> the act of defending oneself from an aggressor or refusing to accept something |
| 170. pr_____t when she will arrive | <i>v.</i> to state beforehand that something will happen in the future, mainly based on knowledge or experience |
| 171. ac_____te measurements | <i>adj.</i> correct and exact in all details |
| 172. heavy ma_____ry | <i>n.</i> a group of large machines or the components of a machine that make it work; social institution functions or structure for doing something |

ANSWERS: 162. compute, 163. repurpose, 164. infection, 165. evolve, 166. handheld, 167. vaccine, 168. criteria, 169. resistance, 170. predict, 171. accurate, 172. machinery

173. produce an____dy	<i>n.</i> a substance produced in the blood that attacks and kills harmful bacteria, viruses, etc., to fight disease
174. l_b instrument	<i>n.</i> a workplace for the conduct of scientific research; a laboratory
175. au_____us decision	<i>adj.</i> showing a willingness to take bold risks or to do something that is considered unconventional or daring; marked by originality, creativity, or boldness
176. res_____ce to insulin	<i>n.</i> the act of defending oneself from an aggressor or refusing to accept something
177. co_____st two things	<i>v.</i> to put in opposition to show or emphasize differences
178. de____t a bad event	<i>v.</i> to find or recognize something, especially something difficult to see, hear, etc.
179. a strain of vi__s	<i>n.</i> a tiny infectious organic material that causes disease in people, animals, and plants
180. a scientific di_____ry	<i>n.</i> the act or process of finding information, a place, or an object, or learning about something that was previously not known
181. have dev_____ng effects	<i>adj.</i> causing a great deal of destruction or damage
182. tr_____r a biochemical response	<i>v.</i> to make something happen suddenly; to cause something such as a device, machine, etc. to function

ANSWERS: 173. antibody, 174. lab, 175. audacious, 176. resistance, 177. contrast, 178. detect, 179. virus, 180. discovery, 181. devastating, 182. trigger

183. dog's sa___a *n.* the clear liquid that is secreted into the mouth by glands in the walls of the mouth and throat, helping to lubricate food during chewing and digestion
184. in my ca___d opinion *adj.* honest, straightforward, and frank in someone's words or actions
185. ti___r with the bill *v.* to make repairs, adjustments, or improvements to something, especially in an experimental or makeshift way
186. 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
187. pai_____ng research *adj.* cautious and correct, and requiring a significant amount of effort
188. financial cr___s *n.* a time of great disagreement, confusion, or danger when problems must be resolved or critical decisions must be taken
189. ha_____ld device *adj.* designed to be held in one hand; portable, and compact enough to be carried or used on the go
190. take im_____te effect *adj.* happening or done without delay or occurring shortly after something else
191. sc_____le solution *adj.* capable of being easily expanded or increased in size, number, or scale to meet changing demands
192. legal co_____t *n.* the circumstances, facts, or conditions that surround a particular event, situation, or statement and that give it meaning

ANSWERS: 183. saliva, 184. candid, 185. tinker, 186. recreation, 187. painstaking, 188. crisis, 189. handheld, 190. immediate, 191. scalable, 192. context

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|---|----|---|
| 193. ti___r with the settings | v. | to make repairs, adjustments, or improvements to something, especially in an experimental or makeshift way |
| 194. p___e a significant threat to my company | v. | to present a risk, problem, or other issues that must be addressed |
| 195. ex_____t a bad attitude | v. | to show something in public for people to enjoy or to provide them with information |
| 196. tr_____nt by diet | n. | the way in which someone deals with or behaves towards someone or something; medical care provided to a patient for an injury or illness. |
| 197. acid hy_____e | v. | to add water or moisture to something; to drink enough fluids to maintain proper moisture; (noun) any compound that contains water of crystallization |
| 198. motion se___r lighting | n. | a device that receives a signal or stimulus such as heat, pressure, light, motion, etc. and responds to it in a specific manner |
| 199. co_____t car | n. | an idea or principle associated with something abstract |
| 200. first-aid tr_____nt | n. | the way in which someone deals with or behaves towards someone or something; medical care provided to a patient for an injury or illness. |
| 201. harmful co_____nd | n. | an item composed of two or more distinct elements combined; a chemical formed by the combination of two or more elements |

ANSWERS: 193. tinker, 194. pose, 195. exhibit, 196. treatment, 197. hydrate, 198. sensor, 199. concept, 200. treatment, 201. compound

202. col_____te with the police	<i>v.</i> to work with someone else to produce or achieve something
203. a br__d mind	<i>adj.</i> very wide; general
204. ant_____ic resistance	<i>n.</i> a substance or drug that kills or slows down the growth of bacteria
205. the_____ic administration	<i>adj.</i> relating to or involved in the treatment of illness or injury
206. si_____n wafer	<i>n.</i> a chemical element with the symbol Si that is a hard, brittle crystalline solid with a blue-grey metallic luster and used for the transistors and integrated circuit chips in computers
207. as_____te with people widely	<i>v.</i> to mentally connect someone or something with someone or something else
208. flu_____nt bulb	<i>adj.</i> emitting or reflecting vibrant and vivid light, especially under ultraviolet light; describing a type of lamp or bulb that produces such light
209. an oxygen m__k	<i>v.</i> to conceal something; (noun) a covering that you wear over your face to hide it
210. sy_____ic fertilizer	<i>adj.</i> made by combining chemical substances as opposed to being naturally occurring
211. ex_____e our options	<i>v.</i> to travel to or penetrate an area or a country to learn about it; to thoroughly examine a subject or a possibility to learn more about it
212. fa___c of creation	<i>n.</i> cloth or other material produced by weaving wool, cotton, silk, etc., used for making clothes, covering furniture, etc.

ANSWERS: 202. collaborate, 203. broad, 204. antibiotic, 205. therapeutic, 206. silicon, 207. associate, 208. fluorescent, 209. mask, 210. synthetic, 211. explore, 212. fabric

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| 213. cell and molecular bi____y | <i>n.</i> the scientific study of life and the natural processes of living things |
| 214. ex___e rebellion | <i>v.</i> to make someone feel suddenly enthusiastic or eager |
| 215. apply AI technology to art | <i>n.</i> (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 |
| 216. rec_____on of the homeland | <i>n.</i> 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 |
| 217. cr_____ia for action | <i>n.</i> (plural of criterion) standards or conditions by which something may be judged or decided |
| 218. f__t accomplishment | <i>n.</i> a notable or impressive achievement, especially one that requires great skill or bravery |
| 219. viral an_____n | <i>n.</i> a substance that triggers the body's immune response (= the reaction for fighting infections) for defending the body, especially by producing antibodies (= proteins that identify and attack harmful bacteria, viruses, etc.) |
| 220. historical no__l | <i>n.</i> an extended fictional work in prose; usually in the form of a story; (adjective) original and of a kind not seen before |

ANSWERS: 213. biology, 214. excite, 215. AI, 216. recreation, 217. criteria, 218. feat, 219. antigen, 220. novel

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| 221. de____p a skill | <i>v.</i> to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created |
| 222. ma____t attraction | <i>n.</i> an object or substance that can attract certain materials, such as iron or steel |
| 223. exp____al function | <i>adj.</i> becoming more and more rapid; of or involving mathematical exponents |
| 224. id____fy gene sequences | <i>v.</i> to recognize someone or something and say or prove who or what they are |
| 225. de____t smuggling across borders | <i>v.</i> to find or recognize something, especially something difficult to see, hear, etc. |
| 226. the w_t of man | <i>n.</i> the ability to say or write things or ideas in a clever and humorous way |

ANSWERS: 221. develop, 222. magnet, 223. exponential, 224. identify, 225. detect, 226. wit

Session 3: Fill in the Blanks

1. The _____ exercised great care in landing.
n. a person who flies an aircraft, especially as a job; a person qualified to guide ships through a difficult area of water
2. Yoga is known to have _____ benefits for the mind and body.
adj. relating to or involved in the treatment of illness or injury
3. These synthetic _____ are used in military vests because of their excellent abrasion resistance.
n. cloth or other material produced by weaving wool, cotton, silk, etc., used for making clothes, covering furniture, etc.
4. This pharmaceutical company is developing _____ drugs with fewer side effects.
n. a substance produced in the blood that attacks and kills harmful bacteria, viruses, etc., to fight disease
5. The _____ size shirt fits him perfectly.
adj. of a size, amount, or level that is average or intermediate; (noun) a means or instrumentality for storing or communicating information
6. This device is used to _____ brain cancer and other tumors.
v. to determine or distinguish the nature of a problem or an illness through a careful analysis
7. This examination _____ of five problems to solve.
v. to be composed or made up of

ANSWERS: 1. pilot, 2. therapeutic, 3. fabrics, 4. antibody, 5. medium, 6. diagnose, 7. consists

8. This typhoon was the most _____ in years.

adj. causing a great deal of destruction or damage

9. The _____ has largely gotten positive feedback.

n. an extended fictional work in prose; usually in the form of a story; (adjective) original and of a kind not seen before

10. _____ a society is an organism.

adv. relating to the essential features or concepts of anything

11. _____ testing is less accurate than PCR testing but easier to perform.

n. a substance that triggers the body's immune response (= the reaction for fighting infections) for defending the body, especially by producing antibodies (= proteins that identify and attack harmful bacteria, viruses, etc.)

12. It's notoriously challenging to _____ birth rates.

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

13. He accumulated wealth across a _____ spectrum of assets.

adj. very wide; general

14. The _____ will repair my telephone tomorrow morning.

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

15. These results muddled the _____.

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

ANSWERS: 8. devastating, 9. novel, 10. Essentially, 11. Antigen, 12. predict, 13. broad, 14. engineer, 15. prediction

16. The hospital is battling a _____ that is resistant to antibiotics.
- n.* a strain of bacteria that is resistant to multiple types of antibiotics, making it difficult or impossible to treat with traditional medications
17. 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
18. An infected person in the hospital will likely pass the _____ to others.
- n.* a tiny infectious organic material that causes disease in people, animals, and plants
19. The company can _____ access its employees' computers for troubleshooting purposes.
- adv.* at a distance; not directly or easily accessible
20. The children played hide and seek in the _____ in the barnyard.
- n.* a large mound of hay, usually stacked in a conical or cylindrical shape, used for animal feed or bedding
21. The _____ photography captured the genuine emotions of the moment.
- adj.* honest, straightforward, and frank in someone's words or actions
22. Common salt is a sodium and chlorine _____.
- n.* an item composed of two or more distinct elements combined; a chemical formed by the combination of two or more elements
23. To preserve the freshness of my vegetables, I like to _____ them before storing them.
- v.* a method of preserving food or other substances by freezing them and then rapidly removing the frozen water by sublimation, creating a dried product that can be reconstituted by adding water

ANSWERS: 16. superbug, 17. discovery, 18. virus, 19. remotely, 20. haystacks, 21. candid, 22. compound, 23. freeze-dry

24. The acupuncturist inserted _____ into specific points on my body to alleviate my pain.
- n.* a thin, pointed object typically used for sewing or medical purposes; a metal or plastic instrument used for administering injections or drawing blood
25. In terms of _____ he was head and shoulders above his classmates.
- n.* the ability to learn, comprehend, or make judgments or conclusions based on reasons
26. 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
27. The security camera has _____ four intruders.
- v.* to find or recognize something, especially something difficult to see, hear, etc.
28. 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
29. Scientific knowledge will _____ significantly with the power of AI.
- v.* to go or move forward; to develop in a positive way
30. Eyeless fish _____ in dark caves.
- v.* to develop gradually, or to cause the development of something or someone gradually
31. It is a _____ in many families to have a big Thanksgiving dinner with all their relatives.
- n.* a belief, custom, or way of doing something that has been passed down from generation to generation within a group or society

ANSWERS: 24. needles, 25. intelligence, 26. resistance, 27. detected, 28. magnets, 29. advance, 30. evolved, 31. tradition

32. Children often _____ parents with this head cold.

- v.* to affect a person, an animal, or a plant with a disease-causing organism

33. He spent the afternoon _____ with his car engine.

- v.* to make repairs, adjustments, or improvements to something, especially in an experimental or makeshift way

34. The _____ of audit formally issued a business improvement order.

- n.* a group of large machines or the components of a machine that make it work; social institution functions or structure for doing something

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

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

36. The management must _____ strategies to increase office security.

- v.* to travel to or penetrate an area or a country to learn about it; to thoroughly examine a subject or a possibility to learn more about it

37. The old barn was _____ into a modern event space.

- v.* to use something again for a different purpose than it was originally intended

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

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

39. 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

ANSWERS: 32. infect, 33. tinkering, 34. machinery, 35. painstaking, 36. explore, 37. repurposed, 38. device, 39. feat

40. They fear a _____ of a new type of virus.
n. an outbreak of a disease that affects many people over a very wide area
41. The _____ of severe weather prompted the city to issue an evacuation warning.
n. a strong indication or likelihood of harm, danger, or adverse consequences; an expression of intent to inflict harm or injury on someone or something, often made as a means of coercion or intimidation
42. Considering the situation of _____ organized stopped this year's beer festival.
n. a large family of viruses that can cause illness in humans and animals, which name comes from the crown-like spikes on the surface of the virus, which can be seen under a microscope, and COVID-19 is caused by a specific type of coronavirus known as SARS-CoV-2
43. Several clinical trials are currently underway to test the efficacy of _____ in humans.
n. a type of antibiotic that was discovered through machine learning methods effective against a wide range of bacteria, including some that have become resistant to all known antibiotics
44. She agreed to _____ with him in creating new artwork.
v. to work with someone else to produce or achieve something
45. The _____ jets gradually dominate the world's airlines.
adj. enormous; much bigger or more important than similar items usually are
46. The company _____ raw materials from other countries to manufacture its products.
v. to bring goods or services into a country from another country; to transfer electronic data into a database or document;

ANSWERS: 40. pandemic, 41. threat, 42. coronavirus, 43. halicin, 44. collaborate, 45. giant, 46. imports

47. One of the main _____ of the new product is its increased efficiency.
n. a condition or circumstance that puts one in a favorable or superior position; a beneficial feature or asset that someone or something has
48. This automatic door could no longer be opened due to a _____ failure.
n. a device that receives a signal or stimulus such as heat, pressure, light, motion, etc. and responds to it in a specific manner
49. The office installed new _____ lighting to save energy.
adj. emitting or reflecting vibrant and vivid light, especially under ultraviolet light; describing a type of lamp or bulb that produces such light
50. The doctor carefully examined the _____ medical history.
n. a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic
51. She drank water to _____ her body.
v. to add water or moisture to something; to drink enough fluids to maintain proper moisture; (noun) any compound that contains water of crystallization
52. The scientist was able to _____ the virus by altering its genetic code.
v. to weaken or reduce the intensity of something, such as a sound, feeling, or substance; to make something thinner or less dense
53. The election was a _____ success for the Whigs.
adj. worthy of attention because unusual or special
54. The incident _____ a political controversy.
v. to make something happen suddenly; to cause something such as a device, machine, etc. to function

ANSWERS: 47. advantages, 48. sensor, 49. fluorescent, 50. patient's, 51. hydrate, 52. attenuate, 53. remarkable, 54. triggered

55. He has been prescribed an _____ to treat his infection.

n. a substance or drug that kills or slows down the growth of bacteria

56. 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

57. Two students answered the teacher's question _____.

adv. at the same time

58. The oscillator hunts for the correct _____.

n. an ordered array of colors into which a light beam can be split

59. Hospitals must meet various standards to prevent nosocomial _____.

n. a condition in which pathogenic microorganisms or viruses have entered the body

60. Other technology industries _____ similarly explosive growth.

v. to show something in public for people to enjoy or to provide them with information

61. The young entrepreneur had an _____ plan to start his own company.

adj. showing a willingness to take bold risks or to do something that is considered unconventional or daring; marked by originality, creativity, or boldness

62. Both forts were subject to _____ attacks.

adj. happening or done without delay or occurring shortly after something else

ANSWERS: 55. antibiotic, 56. AI, 57. simultaneously, 58. frequency, 59. infections, 60. exhibit, 61. audacious, 62. immediate

63. There are various hypotheses concerning the _____ of life.

n. the first existence or beginning of something

64. The politician tried to _____ the corruption.

v. to conceal something; (noun) a covering that you wear over your face to hide it

65. The vaccination does not necessarily make you completely _____.

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

66. My boss wouldn't _____ of the plan.

v. to think that someone or something is favorable, acceptable, or appropriate; to officially accept a plan, request, etc.

67. The spider can _____ multiple different silk proteins.

v. to combine a substance to make a more complex product or compound

68. Five miles is _____ similar to eight kilometers.

adv. approximately but not precisely; with a violent manner

69. The doctor prescribed _____ to treat the bacterial infection.

n. an antibiotic drug derived from mold and used to treat bacterial infections

70. The technician used a _____ tool to fix the machine.

adj. designed to be held in one hand; portable, and compact enough to be carried or used on the go

71. mRNA vaccines are approved faster because they do not contain inactivated _____.

n. a bacterium, virus, or other microorganism that causes disease

ANSWERS: 63. origin, 64. mask, 65. immune, 66. approve, 67. synthesize, 68. roughly, 69. penicillin, 70. handheld, 71. pathogens

72. I will introduce you to how to _____ the leading causes of the malfunction.
v. to recognize someone or something and say or prove who or what they are
73. That adventurer traveled in _____ of buried treasure.
n. a long or challenging search for something
74. The doctor immediately prescribed _____ drugs.
adj. inhibiting or stopping the growth and reproduction of viruses; (noun) any drug that destroys viruses
75. This device displayed the speech _____ spectrographically.
n. an ordered array of colors into which a light beam can be split
76. The primary purpose of the _____ is pain relief.
n. the way in which someone deals with or behaves towards someone or something; medical care provided to a patient for an injury or illness.
77. 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
78. Please _____ my glass with some more wine.
v. to fill something that had previously been emptied
79. People have been exploring ways to _____ natural forces and resources since ancient times.
v. to control and exploit the power of something, especially natural resources that produce energy; (noun) a set of narrow pieces of leather and metal that are used to control or hold in place a person, animal, or object

ANSWERS: 72. identify, 73. quest, 74. antiviral, 75. spectrum, 76. treatment, 77. context, 78. replenish, 79. harness

80. _____ is the second most abundant element on earth after oxygen.
- n.* a chemical element with the symbol Si that is a hard, brittle crystalline solid with a blue-grey metallic luster and used for the transistors and integrated circuit chips in computers
81. She holds a _____ on Tuesday mornings.
- n.* a building or hospital department where people can go for medical care or advice, especially of a particular condition
82. The restaurant offered delicious food at an _____ price.
- adj.* costing little; having a low price
83. The chemicals _____ a massive health risk.
- v.* to present a risk, problem, or other issues that must be addressed
84. _____ prevalent in hospitals are often resistant to antibiotics.
- n.* single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease
85. 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
86. Insects in urban areas are becoming _____ to insecticides.
- adj.* not affected by something, especially changes or new ideas; of or relating to immunity to disease or infection
87. _____ is better than argument.
- n.* a fact or piece of information that shows something is true or exists

ANSWERS: 80. Silicon, 81. clinic, 82. inexpensive, 83. pose, 84. Bacteria, 85. molecule, 86. resistant, 87. Proof

88. The news of her promotion _____ her.

v. to make someone feel suddenly enthusiastic or eager

89. This factory employs a _____ manufacturing system.

adj. of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires

90. 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

91. _____ weight is the sum of all the atoms.

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

92. The company's new software is highly _____ allowing it to handle increasing number of users.

adj. capable of being easily expanded or increased in size, number, or scale to meet changing demands

93. The Chinese word for _____ comprises two characters, one for danger and the other for opportunity.

n. a time of great disagreement, confusion, or danger when problems must be resolved or critical decisions must be taken

94. The dentist asked him to spit out the excess _____ into the sink.

n. the clear liquid that is secreted into the mouth by glands in the walls of the mouth and throat, helping to lubricate food during chewing and digestion

95. The mRNA _____ was approved in less than a year because it did not contain the fragments of the target virus.

n. a substance that is put into the body and protects them from disease by causing them to produce antibodies (= proteins that attack harmful bacteria, viruses, etc.)

ANSWERS: 88. excited, 89. cellular, 90. biology, 91. Molecular, 92. scalable, 93.

crisis, 94. saliva, 95. vaccine

96. It's intriguing to compare and _____ the two authors.

- v. to put in opposition to show or emphasize differences

97. He didn't meet all the _____ but he was hired anyway.

- n. (plural of criterion) standards or conditions by which something may be judged or decided

98. I tried to _____ the efficiency of the investment.

- v. to make a mathematical calculation

99. The government is determined to _____ sharp inflation.

- v. to try to deal with a complex problem or situation

100. The majority of consumers _____ this brand with quality.

- v. to mentally connect someone or something with someone or something else

101. He has the ____ to keep talking about this topic.

- n. the ability to say or write things or ideas in a clever and humorous way

102. 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

103. The police found a hidden _____ of weapons in the suspect's house.

- n. a collection of weapons or military equipment stored in preparation for war or conflict; a collection of resources or tools available for use in a particular field or endeavor

ANSWERS: 96. contrast, 97. criteria, 98. compute, 99. tackle, 100. associate, 101. wit, 102. develop, 103. arsenal

104. The Prime Minister will pay a courtesy visit to the Nobel laureate's ____.

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

105. 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

106. The recent economic downturn has resulted in _____ layoffs.

adj. enormous amount; very heavy and solid

107. The study of Escherichia ____ has led to important advancements in areas such as antibiotic resistance, gut microbiome, and synthetic biology.

n. a bacterium of the genus Escherichia that is commonly found in the human gut and is used as a model organism in molecular biology and biochemistry

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

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

109. The official transcript contains _____ academic records.

adj. correct and exact in all details

110. _____ diamonds play an essential role as machine tool blades.

adj. made by combining chemical substances as opposed to being naturally occurring

111. Clouds form when water _____ rises to the upper atmosphere.

n. a mass of tiny liquid drops in the air

ANSWERS: 104. lab, 105. recreation, 106. massive, 107. coli, 108. exponential, 109. accurate, 110. Synthetic, 111. vapor

112. The golfer recorded an _____ distance.

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

113. One such rapidly growing _____ is quantum cryptography.

n. an idea or principle associated with something abstract

ANSWERS: 112. amazing, 113. concept