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Vocabulary Builder Reference from...

Skylar Tibbits: The emergence of "4D printing" | TED Talk

https://www.ted.com/talks/skylar_tibbits_the_emergence_of_4d_printing

All Words

IMPORTANT

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Session 1: Word List

prototype

n. a first or preliminary example of something such as a device or vehicle from which other forms are developed

synonym : mock-up, precursor, model

(1) complete a **prototype** product, (2) early **prototype**

The flying car is presently in the **prototype** stage.

straight

adj. extending or moving in one direction without bending or curving; having no deviations

synonym : linear, honest, consecutive

(1) a **straight** line, (2) **straight** for two months

He was sick for five **straight** days.

slave

n. a person who is, either legally or illegally, owned by someone; a person entirely dominated by some influence or a person

synonym : captive, bondservant, hard worker

(1) a **slave** of drink, (2) a **slave** trader

You should work hard but not be a **slave** to it.

labor

n. productive work, especially physical work done for wages; the people who do manual or physical work in a country or company for wage; (verb) to work hard or to strive and make an effort to reach a goal

synonym :

toil, moil, donkeywork

(1) seasonal **labor**, (2) manual **labor**

In several countries, child **labor** is a serious social problem.

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.

analogy

n. a comparison between similar things that have similar aspects, often used to help explain a principle or concept

synonym: metaphor, comparison, parallel

(1) draw **analogy**, (2) historical **analogy**

Some kinds of machine learning models show an **analogy** to how people learn.

construct

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

synonym: build, assemble, create

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

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

manufacture

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

synonym: create, fabricate, assemble

(1) **manufacture** an enzyme, (2) **manufacture** a product

The majority of synthetic vitamins are **manufactured** from oil.

brute

n. a violent, wild, or feral animal; a person who is cruel, uncivilized, or lacking in intelligence or sensitivity; a physical force or power

synonym : beast, savage, animal

(1) **brute** beasts, (2) **brute** force

The **brute** behavior of the football players caused the game to be canceled.

assembly

n. a group of people who have been elected, especially one that meets regularly and makes decisions or laws for a specific region or country

synonym : crowd, gathering, mass

(1) **assembly** line, (2) **assembly** hall

This company's **assembly** plant is an enormous facility.

technique

n. a particular way or art of doing something that needs skill

synonym : approach, procedure, strategy

(1) a **technique** in martial arts, (2) the **technique** applied to construction

Jockey's superior **technique** brought him victory.

micro

n. extremely small in scale or scope; one millionth

(1) **micro** bubble, (2) **micro** force sensor

This approach employs both **micro** and macro analysis methods.

nanoscale

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

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

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

unprecedented

adj. never having been seen, done, or known before

synonym : novel, outstanding, unparalleled

(1) **unprecedented** boom, (2) **unprecedented** business opportunity

Unprecedented amounts of heckling and slogan-shouting took place throughout the event.

revolution

n. a large-scale attempt to overthrow the government of a country, often using violence or war;

synonym: coup, innovation, rebellion

(1) beginning of the industrial **revolution**, (2) a political **revolution**

The **revolution** by the citizen resulted in a redistribution of wealth.

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.

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.

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.

software

n. a set of computer programs and associated documentation and data for doing particular computational jobs

synonym: program, system, operating system

(1) **software** architect, (2) copyrighted **software**

The company specializes in both hardware and **software**.

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.

delivery

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

synonym: sending, transporting, bringing

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

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

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.

functional

adj. designed for or capable of a particular activity, purpose, or task; practical or ready for use or service

synonym: applicable, practical, usable

(1) field of **functional** medicine, (2) **functional** deafness

The mobile phone was still **functional** even after being dropped.

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.

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.

inefficiency

n. the lack of ability or effectiveness in producing the desired results or outcomes; the quality of being wasteful or unproductive

synonym : ineffectiveness, inefficacy, inadequacy

(1) **inefficiency** in the system, (2) bureaucratic **inefficiency**

The company's **inefficiency** in handling customer requests led to many complaints.

consumption

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

synonym : usage, uptake, utilization

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

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

excessive

adj. greater than what seems necessary, normal, or desirable

synonym : unreasonable, exorbitant, inflated

(1) an **excessive** force, (2) take **excessive** care

It would be best if you did not demand such an **excessive** charge.

infrastructure

n. the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies

synonym : foundation, framework

(1) IT **infrastructure**, (2) **infrastructure** cost

Aging societies tend to require huge costs for **infrastructure** maintenance.

pump

v. to cause water, air, gas, etc. to move from one place to another by using mechanical equipment; to get or supply something such as money, information, etc. in significant quantities

synonym : drain, inject, send

(1) **pump** a secret out of success, (2) **pump** blood

throughout the body

He was alert and could not **pump** any critical information out of him.

valve

n. a device for controlling the flow of a fluid or gas through a pipe or duct by means of a movable part that opens, closes, or restricts the opening

synonym: tap, spigot, faucet

(1) electromagnetic **valve**, (2) **valve** control

The **valve** on the pipeline was leaking, so maintenance had to shut it off to make repairs.

bury

v. to place a dead body in the ground, grave, or tomb

synonym: entomb, sink, forget

(1) **bury** in the earth, (2) **bury** emotion

There is plenty of space to **bury** everyone.

environment

n. the natural world such as air, water, and land in which humans, animals, and plants live

synonym: atmosphere, surroundings, climate

(1) **environment** affairs, (2) chaotic **environment**

Every human is responsible for taking care of the Earth's **environment**.

scratch

v. to cut or damage the surface of something or the skin with a sharp or pointed object

synonym: claw, rub, scrape

(1) **scratch** off a name, (2) **scratch** my signature

Don't **scratch** your mosquito bites.

replace

v. to take the place of something

synonym: substitute, supersede, displace

(1) **replace** one word with another, (2) **replace** a phone

Eventually, the new design will **replace** all older models.

propose

v. to make a proposal, declare a plan for something
synonym: suggest, offer, recommend

(1) **propose** the amendment, (2) **propose** changes
I want to **propose** a toast in honor of our longstanding relationship.

combine

v. to join or merge to form a single thing or group
synonym: coalesce, cohere, blend

(1) **combine** chemically with another substance,
(2) **combine** augmented reality
Hydrogen and oxygen **combine** to form water.

adaptive

adj. capable of adjusting to new situations or changing conditions

synonym: flexible, adjustable, pliant

(1) the **adaptive** coloring, (2) **adaptive** technology
The **adaptive** learning system adjusts the difficulty level of the lessons based on the student's performance.

automated

adj. carried out by machines or computers to replace or decrease human labor

synonym: computerized, mechanical, laborsaving

(1) **automated** manual transmission, (2) **automated** way
The plant will continue operating through an **automated** system 24 hours a day.

process

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

synonym: procedure, method, system

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

disorder

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

synonym : chaos, disturbance, disease

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

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

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.

ingredient

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

synonym : element, component

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

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

geometry

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

(1) Euclidean **geometry**, (2) spherical **geometry**

The mathematician pioneered fractal **geometry**.

tight

adj. fixed, fastened, or kept together firmly or closely

synonym : closed, secured, cramped

(1) a **tight** game, (2) student on a **tight** budget

The national election was held amid **tight** security.

pneumatic

adj. relating to or using air or gas under pressure, particularly in machinery or devices; operated by compressed air or gas

synonym : air-powered, gas-pressure, compressed-air

(1) **pneumatic** tire, (2) **pneumatic** cylinder

The mechanic used a **pneumatic** drill to repair the engine.

gravity

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

synonym: heaviness, attraction, weight

(1) the attraction of **gravity**, (2) preserve my **gravity**

The astronaut felt weightless in space due to the absence of **gravity**.

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.

protein

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

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

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

backbone

n. the spinal column of a vertebrate; a symbolic representation of strength and resilience

synonym: spine, courage, fortitude

(1) **backbone** of society, (2) **backbone** curve

She showed great **backbone** when standing up for her beliefs in opposition.

component

n. one of several parts that combines with others to form something bigger

synonym: element, part, factor

(1) key **component**, (2) spare **components** for cars

The researchers try to discover a common **component** in all

types of successful organizations.

embed

v. to fix or set firmly in a surrounding mass

synonym: entrench, fix, set

(1) **embed** scripts in the message, (2) **embed** a sensor

The company **embedded** a tracking code in the product's packaging to monitor its shipment.

elastic

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

synonym: stretchy, flexible, resilient

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

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

intricacy

n. the quality of being complex, detailed, or highly involved; the existence of many interrelated parts or elements

synonym: complexity, intricateness, elaboration

(1) the **intricacy** of the design, (2) legal **intricacy**

The clockwork mechanism of the antique watch showed incredible **intricacy**.

tangible

adj. real and concrete; able to be perceived, especially able to be touched; (of business assets) having physical substance and intrinsic monetary value

synonym: palpable, real, actual

(1) **tangible** assets, (2) produce **tangible** results

A problem that has been pointed out for years finally becomes **tangible**.

intuitive

adj. obtained through feelings rather than facts or proof

synonym: involuntary, instinctive, innate

(1) **intuitive** eating, (2) **intuitive** judgment

I had an **intuitive** feeling that I might be pregnant.

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.

Arthurian

adj. relating to king Arthur and the tales and legends associated with him

(1) the **Arthurian** cycle, (2) **Arthurian** romances

The **Arthurian** legends of King Arthur and the knights of the Round Table are popular literary motifs.

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.

individual

n. a single person or thing, as distinct from a group
synonym: person, being, self

(1) a private **individual**, (2) **individual** freedom

As an **individual**, he had the right to make his own decisions and live his life as he saw fit.

beak

n. the hard and pointed or curved mouse of a bird
synonym: nib, pecker, snoot

(1) sharp **beak**, (2) a tip of the **beak**

The bird's **beak** evolves according to the type of prey it can take on the area.

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.

polio

n. an acute infectious disease caused by a virus that attacks nerve cells in the spinal cord and brain, leading to paralysis, muscle weakness, and potentially lifelong disability

synonym: poliomyelitis, infantile paralysis

(1) **polio** epidemic, (2) **polio** eradication

The **polio** vaccine development is regarded as one of the greatest medical achievements of the 20th century.

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.

random

adj. made, done, or happening without method, conscious decision, or any regular pattern

synonym: incidental, arbitrary, unanticipated

(1) a **random** choice, (2) bombs fell at **random**

To find drunk drivers, police conduct **random** tests.

demonstrate

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

synonym: show, illustrate, display

(1) **demonstrate** a difference, (2) **demonstrate** mastery

How can you **demonstrate** that the earth is a sphere?

installation

n. the act or process of fixing furniture, a machine, or a piece of equipment into position so that it can be used; the act or process of putting into an office or a position

synonym: induction, introduction, furnishing

(1) **installation** fee, (2) a medical **installation**

The Queen attested the **installation** of state ministers to their portfolios.

- rot** v. to decay, or cause something to decay, naturally and gradually
synonym : perish, decay, corrode
(1) begin to **rot**, (2) **rot** with age
Please refrigerate the meat, or it will **rot**.
- chamber** n. a large room used for a formal, public, or particular purpose; one of the parts of a parliament
synonym : association, cabin, legislature
(1) a gas **chamber**, (2) the lower **chamber**
The surgeon made an incision in the **chambers** of the patient's heart.
- spin** v. to cause something to rotate rapidly; to cause someone to feel dizzy or disoriented
synonym : rotate, twirl, swirl
(1) **spin** a top, (2) **spin** thread out of cotton
The tornado is **spinning** across the countryside, destroying everything in its path.
- macroscopic** *adj.* visible to the naked eye; relating to objects or phenomena that are large enough to be seen without the aid of a microscope or other magnifying tools
synonym : large, visible, apparent
(1) **macroscopic** observation, (2) **macroscopic** anatomy
The **macroscopic** view of the galaxy is simply breathtaking.
- unveil** v. to reveal or make something publicly known, especially for the first time
synonym : reveal, uncover, expose
(1) **unveil** a monument, (2) **unveil** a comprehensive plan
The company plans to **unveil** its new product at the trade show next week.
- collaboration** n. the act or situation of working together to create or produce something
synonym : affiliation, alliance, coalition

(1) **collaboration** between companies, (2) **collaboration** platform

The partnership program requires a mutual **collaboration** between both agencies.

deposit

n. a sum of money or materials placed or kept in a bank, safety deposit box, or other secure places for safekeeping; a layer of rock, sand, or other material left behind by a flowing liquid or eroding force

synonym: bank, installment, sedimentation

(1) **deposit** money, (2) **deposit** accumulation

I made a **deposit** at the bank to add money to my account.

transformation

n. a complete change in form, nature, or appearance of someone or something

synonym: change, conversion, renewal

(1) the **transformation** of a tadpole into a frog, (2) cast a **transformation** spell

Understanding unitary **transformations** of a normal matrix require considerable mathematical sophistication.

transform

v. to change in outward structure or looks;

synonym: alter, convert, change

(1) **transform** an education system, (2) **transform** heat into power

My father's death **transformed** my life completely.

motor

n. a device that converts electricity, fuel, etc. into movement and makes a machine, vehicle, etc. work

synonym: actuator, engine, machine

(1) a **motor** mechanic, (2) DC **motor** control

Energy-efficient **motors** are needed to maximize the cruising distance of electric vehicles.

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.

cyborg

n. a being that is part human and part machine or technology, often created through the integration of electronic and mechanical devices

synonym: android, bionic, half-human

(1) **cyborg** technology, (2) **cyborg** cop

The idea of a superhuman **cyborg** army is a popular trope in action movies.

optimize

v. to make the best or most effective use of something

synonym: advance, amend, improve

(1) **optimize** a process, (2) **optimize** control for cooling

The essence of economics is to **optimize** the allocation of limited resources.

demonstration

n. a display or show, often of a particular skill or product, intended to convince or persuade others

synonym: manifestation, presentation, show

(1) **demonstration** project, (2) a campus **demonstration**

Thousands of people attended the protest **demonstration** against the proposed policy.

strand

n. a very thin natural or synthetic thread, wire, hair, etc.; (verb) to leave or drive a vessel, fish, etc., aground or ashore

synonym: fiber, filament, string

(1) a **strand** of fine hair, (2) double- **strand** DNA

I heard several melodic **strands** simultaneously.

- dip** v. to put something into a liquid for a short time and take it out again
synonym: dunk, dive, plunge
(1) **dip** a pen in ink, (2) **dip** a chip in the sauce
Please **dip** up a bucketful of water from the well.
- bias** n. a strong feeling in favor of or against one group of people, an idea, or thing, often not based on fair judgment
synonym: inclination, partiality, predilection
(1) **bias** against a big company, (2) have a **bias** toward socialism
She researched gender **bias** in politics.
- cube** n. a three-dimensional shape with six square faces that are all equal in size; (of mathematics) the result of multiplying the number by itself three times
synonym: block, square, cell
(1) **cube** root, (2) ice **cube**
I cut the cheese into small **cubes** for the salad.
- embedded** *adj.* fixed firmly into the surface of something
synonym: ingrained, implanted, inserted
(1) **embedded** systems, (2) LED- **embedded** glass
The **embedded** chip in my credit card allows me to make contactless payments.
- 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**.
- dedicate** v. to give all of your energy, time, etc., entirely to a specific person, activity, or cause; to set apart for a particular purpose or use

synonym : consecrate, devote, commit

(1) **dedicate** a few hours, (2) **dedicate** a chapter to the subject

He **dedicated** his life to helping others.

sector

n. a distinct part or division of something often used to refer to a segment of an economy or industry; an area or field of work or activity

synonym : division, department, branch

(1) industrial **sector**, (2) private **sector**

The technology **sector** is constantly evolving and innovating.

extreme

adj. very great in amount or degree

synonym : farthestmost, outermost, fierce

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

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

scenario

n. a description of possible actions or events in the future; a written outline of a play, film, or literary work

synonym : plan, scheme, procedure

(1) the worst case **scenario**, (2) number of different **scenarios**

The president prepared several possible **scenarios** for an enemy attack.

reconfigure

v. to change the configuration or arrangement of something, often to improve its performance or functionality

synonym : reshape, restructure, realign

(1) **reconfigure** the network, (2) **reconfigure** the operating system

We need to **reconfigure** the office layout to use the space better.

paradigm

n. a standard or typical example of something; a pattern or model

synonym : example, standard, epitome

(1) major **paradigm** shift, (2) cultural **paradigm**
He postulated a completely different **paradigm** to explain all these phenomena.

expand

v. to increase or to make something greater in size, number, or importance

synonym: extend, grow, boost

(1) **expand** a lineup, (2) **expand** agricultural output

They hope to **expand** their business worldwide.

contract

n. a legally binding agreement between two or more parties, setting out their rights and obligations to each other, typically in writing and enforceable by law

synonym: agreement, deal, arrangement

(1) employment **contract**, (2) **contract** law

The company signed a **contract** with the supplier for the delivery of goods.

undulate

v. to move with a smooth wavelike motion; to have a wavy form or outline

synonym: roll, ripple, wave

(1) **undulate** waves, (2) **undulate** in the wind

The snake **undulated** its way through the underbrush, silently stalking its prey.

peristaltic

adj. relating to the rhythmic contraction and relaxation of muscles that create wave-like movements, particularly referring to the action of peristalsis, which is the movement of food through the digestive tract

synonym: contractile, rhythmic, pulsating

(1) **peristaltic** contractions, (2) **peristaltic** pump

The intestines' **peristaltic** movement helps propel food through the digestive system.

harsh

adj. severe and unkind; extremely tough and unpleasant to inhabit

synonym: brutal, severe, backbreaking

(1) **harsh** climate, (2) use of **harsh** chemicals
The prime minister faced **harsh** criticism.

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.

invite

v. to ask someone to come or join; to offer an opportunity or possibility for something to happen or take place

synonym: ask, request, summon

(1) **invite** guests, (2) **invite** criticism

We want to **invite** you to our annual charity event.

industrious

adj. hardworking, diligent, and persistent in effort

synonym: diligent, hardworking, assiduous

(1) **industrious** worker, (2) **industrious** student

He was known to be very **industrious** and would often work late into the night.

reinvent

v. to change something so drastically that it looks to be completely new

synonym: recreate, remake, revive

(1) **reinvent** local dishes, (2) **reinvent** our life

They have tried to **reinvent** their grocery stores.

reimagine

v. to imagine or conceive of something in a new or different way

synonym: re-conceptualize, re-envision, re-create

(1) **reimagine** the future, (2) **reimagine** the possibilities

The company is trying to **reimagine** its business model to stay competitive.

Session 2: Spelling

1. co_____ct a dam
v. to build or create something; to assemble or combine different parts to form something whole
2. br__e beasts
n. a violent, wild, or feral animal; a person who is cruel, uncivilized, or lacking in intelligence or sensitivity; a physical force or power
3. use of ha__h chemicals
adj. severe and unkind; extremely tough and unpleasant to inhabit
4. d_p a pen in ink
v. to put something into a liquid for a short time and take it out again
5. a ti__t game
adj. fixed, fastened, or kept together firmly or closely
6. electromagnetic va__e
n. a device for controlling the flow of a fluid or gas through a pipe or duct by means of a movable part that opens, closes, or restricts the opening
7. per_____ic contractions
adj. relating to the rhythmic contraction and relaxation of muscles that create wave-like movements, particularly referring to the action of peristalsis, which is the movement of food through the digestive tract
8. employment co_____ct
n. a legally binding agreement between two or more parties, setting out their rights and obligations to each other, typically in writing and enforceable by law

ANSWERS: 1. construct, 2. brute, 3. harsh, 4. dip, 5. tight, 6. valve, 7. peristaltic, 8. contract

9. sc_____h off a name *v.* to cut or damage the surface of something or the skin with a sharp or pointed object
10. manual la__r *n.* productive work, especially physical work done for wages; the people who do manual or physical work in a country or company for wage; (verb) to work hard or to strive and make an effort to reach a goal
11. draw an_____y *n.* a comparison between similar things that have similar aspects, often used to help explain a principle or concept
12. in_____ve judgment *adj.* obtained through feelings rather than facts or proof
13. co_____e the value *v.* to make a mathematical calculation
14. un___l a comprehensive plan *v.* to reveal or make something publicly known, especially for the first time
15. pr_____e the amendment *v.* to make a proposal, declare a plan for something
16. spread of the vi__s *n.* a tiny infectious organic material that causes disease in people, animals, and plants
17. pr_____n synthesis *n.* a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues
18. 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

ANSWERS: 9. scratch, 10. labor, 11. analogy, 12. intuitive, 13. compute, 14. unveil, 15. propose, 16. virus, 17. protein, 18. develop

19. ma___t attraction *n.* an object or substance that can attract certain materials, such as iron or steel
20. p__p blood throughout the body *v.* to cause water, air, gas, etc. to move from one place to another by using mechanical equipment; to get or supply something such as money, information, etc. in significant quantities
21. double-st___d DNA *n.* a very thin natural or synthetic thread, wire, hair, etc.; (verb) to leave or drive a vessel, fish, etc., aground or ashore
22. the ad____ve coloring *adj.* capable of adjusting to new situations or changing conditions
23. preserve my gr____y *n.* the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn
24. pn____ic cylinder *adj.* relating to or using air or gas under pressure, particularly in machinery or devices; operated by compressed air or gas
25. the Ar____an cycle *adj.* relating to king Arthur and the tales and legends associated with him
26. b__y in the earth *v.* to place a dead body in the ground, grave, or tomb
27. unpre____ted boom *adj.* never having been seen, done, or known before
28. DC mo__r control *n.* a device that converts electricity, fuel, etc. into movement and makes a machine, vehicle, etc. work

ANSWERS: 19. magnet, 20. pump, 21. strand, 22. adaptive, 23. gravity, 24. pneumatic, 25. Arthurian, 26. bury, 27. unprecedented, 28. motor

29. co_____ct a 3D image *v.* to build or create something; to assemble or combine different parts to form something whole
30. l_b instrument *n.* a workplace for the conduct of scientific research; a laboratory
31. things at the na_____le *adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
32. as_____ly hall *n.* a group of people who have been elected, especially one that meets regularly and makes decisions or laws for a specific region or country
33. the files are in complete di_____er *n.* an untidy state or a lack of organization; a physical condition or illness that causes problems with how a section of the body or brain functions
34. private se_____r *n.* a distinct part or division of something often used to refer to a segment of an economy or industry; an area or field of work or activity
35. un_____l a monument *v.* to reveal or make something publicly known, especially for the first time
36. tr_____rm an education system *v.* to change in outward structure or looks;
37. em__d a sensor *v.* to fix or set firmly in a surrounding mass
38. a strain of vi__s *n.* a tiny infectious organic material that causes disease in people, animals, and plants
39. people with bipolar di_____er *n.* an untidy state or a lack of organization; a physical condition or illness that causes problems with how a section of the body or brain functions

ANSWERS: 29. construct, 30. lab, 31. nanoscale, 32. assembly, 33. disorder, 34. sector, 35. unveil, 36. transform, 37. embed, 38. virus, 39. disorder

40. field of fun_____al medicine *adj.* designed for or capable of a particular activity, purpose, or task; practical or ready for use or service
41. em__d scripts in the message *v.* to fix or set firmly in a surrounding mass
42. ice c__e *n.* a three-dimensional shape with six square faces that are all equal in size; (of mathematics) the result of multiplying the number by itself three times
43. a campus dem_____ion *n.* a display or show, often of a particular skill or product, intended to convince or persuade others
44. as_____le a jigsaw puzzle *v.* to collect in one place as a single group
45. ex____d a lineup *v.* to increase or to make something greater in size, number, or importance
46. ex_____e sports *adj.* very great in amount or degree
47. begin to r_t *v.* to decay, or cause something to decay, naturally and gradually
48. po__o eradication *n.* an acute infectious disease caused by a virus that attacks nerve cells in the spinal cord and brain, leading to paralysis, muscle weakness, and potentially lifelong disability
49. unp_____ted business opportunity *adj.* never having been seen, done, or known before
50. copyrighted so_____re *n.* a set of computer programs and associated documentation and data for doing particular computational jobs

ANSWERS: 40. functional, 41. embed, 42. cube, 43. demonstration, 44. assemble, 45. expand, 46. extreme, 47. rot, 48. polio, 49. unprecedented, 50. software

51. ba____ne of society *n.* the spinal column of a vertebrate; a symbolic representation of strength and resilience
52. major pa____gm shift *n.* a standard or typical example of something; a pattern or model
53. cy____g technology *n.* a being that is part human and part machine or technology, often created through the integration of electronic and mechanical devices
54. sharp b__k *n.* the hard and pointed or curved mouse of a bird
55. a private ind____al *n.* a single person or thing, as distinct from a group
56. ine____ncy in the system *n.* the lack of ability or effectiveness in producing the desired results or outcomes; the quality of being wasteful or unproductive
57. the lower ch____r *n.* a large room used for a formal, public, or particular purpose; one of the parts of a parliament
58. per____ic pump *adj.* relating to the rhythmic contraction and relaxation of muscles that create wave-like movements, particularly referring to the action of peristalsis, which is the movement of food through the digestive tract
59. au____ed manual transmission *adj.* carried out by machines or computers to replace or decrease human labor
60. de____te a few hours *v.* to give all of your energy, time, etc., entirely to a specific person, activity, or cause; to set apart for a particular purpose or use

ANSWERS: 51. backbone, 52. paradigm, 53. cyborg, 54. beak, 55. individual, 56. inefficiency, 57. chamber, 58. peristaltic, 59. automated, 60. dedicate

61. development of aut_____us vehicles *adj.* capable of governing or controlling its affairs
62. un_____te in the wind *v.* to move with a smooth wavelike motion; to have a wavy form or outline
63. LED-em_____ed glass *adj.* fixed firmly into the surface of something
64. el_____c body *adj.* flexible, resilient, or adaptable; (noun) a stretchy material or band that can be stretched and then returned to its original shape; something that is flexible and adaptable
65. env_____nt affairs *n.* the natural world such as air, water, and land in which humans, animals, and plants live
66. man_____re an enzyme *v.* to make goods in large numbers, usually in a factory using machines
67. op_____ze a process *v.* to make the best or most effective use of something
68. new di_____on *n.* a measurable extent of a particular kind, such as width, height, or length
69. ex___d agricultural output *v.* to increase or to make something greater in size, number, or importance
70. IT inf_____ure *n.* the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies
71. the worst case sc_____io *n.* a description of possible actions or events in the future; a written outline of a play, film, or literary work

ANSWERS: 61. autonomous, 62. undulate, 63. embedded, 64. elastic, 65. environment, 66. manufacture, 67. optimize, 68. dimension, 69. expand, 70. infrastructure, 71. scenario

72. inf_____ure cost *n.* the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies
73. bombs fell at ra___m *adj.* made, done, or happening without method, conscious decision, or any regular pattern
74. evolutionary bi____y *n.* the scientific study of life and the natural processes of living things
75. the crosswise di_____on *n.* a measurable extent of a particular kind, such as width, height, or length
76. ind_____us student *adj.* hardworking, diligent, and persistent in effort
77. col_____ion between companies *n.* the act or situation of working together to create or produce something
78. cell and molecular bi____y *n.* the scientific study of life and the natural processes of living things
79. re_____e one word with another *v.* to take the place of something
80. de_____t money *n.* a sum of money or materials placed or kept in a bank, safety deposit box, or other secure places for safekeeping; a layer of rock, sand, or other material left behind by a flowing liquid or eroding force
81. a gas ch_____r *n.* a large room used for a formal, public, or particular purpose; one of the parts of a parliament
82. mac_____ic anatomy *adj.* visible to the naked eye; relating to objects or phenomena that are large enough to be seen without the aid of a microscope or other magnifying tools

ANSWERS: 72. infrastructure, 73. random, 74. biology, 75. dimension, 76. industrious, 77. collaboration, 78. biology, 79. replace, 80. deposit, 81. chamber, 82. macroscopic

83. mo_____ar biology *adj.* of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds)
84. re_____e a phone *v.* to take the place of something
85. compound the ing_____nts *n.* one of the things used to make something, especially one of the foods used to make a particular dish
86. ad_____ve technology *adj.* capable of adjusting to new situations or changing conditions
87. take ex_____ve care *adj.* greater than what seems necessary, normal, or desirable
88. sc_____h my signature *v.* to cut or damage the surface of something or the skin with a sharp or pointed object
89. tr_____te the emotion to a movement *v.* to convert or change words into another language
90. key co_____nt *n.* one of several parts that combines with others to form something bigger
91. rec_____re the network *v.* to change the configuration or arrangement of something, often to improve its performance or functionality
92. a mo__r mechanic *n.* a device that converts electricity, fuel, etc. into movement and makes a machine, vehicle, etc. work
93. cy___g cop *n.* a being that is part human and part machine or technology, often created through the integration of electronic and mechanical devices

ANSWERS: 83. molecular, 84. replace, 85. ingredient, 86. adaptive, 87. excessive, 88. scratch, 89. translate, 90. component, 91. reconfigure, 92. motor, 93. cyborg

94. the tra_____ion of a tadpole into a frog *n.* a complete change in form, nature, or appearance of someone or something
95. va__e control *n.* a device for controlling the flow of a fluid or gas through a pipe or duct by means of a movable part that opens, closes, or restricts the opening
96. complete a pr_____pe product *n.* a first or preliminary example of something such as a device or vehicle from which other forms are developed
97. re_____nt local dishes *v.* to change something so drastically that it looks to be completely new
98. as_____le your colleagues *v.* to collect in one place as a single group
99. pr_____e changes *v.* to make a proposal, declare a plan for something
100. tr_____te a document into English *v.* to convert or change words into another language
101. in_____e guests *v.* to ask someone to come or join; to offer an opportunity or possibility for something to happen or take place
102. co_____e chemically with another substance *v.* to join or merge to form a single thing or group
103. spherical ge_____ry *n.* the area of pure mathematics that deals with the points, lines, curves, and surfaces
104. an ex_____ve force *adj.* greater than what seems necessary, normal, or desirable
105. r_t with age *v.* to decay, or cause something to decay, naturally and gradually

ANSWERS: 94. transformation, 95. valve, 96. prototype, 97. reinvent, 98. assemble, 99. propose, 100. translate, 101. invite, 102. combine, 103. geometry, 104. excessive, 105. rot

106. c__e root *n.* a three-dimensional shape with six square faces that are all equal in size; (of mathematics) the result of multiplying the number by itself three times
107. em____ed systems *adj.* fixed firmly into the surface of something
108. fun_____al deafness *adj.* designed for or capable of a particular activity, purpose, or task; practical or ready for use or service
109. in_____ve eating *adj.* obtained through feelings rather than facts or proof
110. ins_____ion fee *n.* the act or process of fixing furniture, a machine, or a piece of equipment into position so that it can be used; the act or process of putting into an office or a position
111. an aut_____us judiciary *adj.* capable of governing or controlling its affairs
112. si_____n wafer *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
113. number of different sc_____ios *n.* a description of possible actions or events in the future; a written outline of a play, film, or literary work
114. re_____ne the possibilities *v.* to imagine or conceive of something in a new or different way

ANSWERS: 106. cube, 107. embedded, 108. functional, 109. intuitive, 110. installation, 111. autonomous, 112. silicon, 113. scenario, 114. reimagine

115. seasonal la__r *n.* productive work, especially physical work done for wages; the people who do manual or physical work in a country or company for wage; (verb) to work hard or to strive and make an effort to reach a goal
116. historical an____y *n.* a comparison between similar things that have similar aspects, often used to help explain a principle or concept
117. d_p a chip in the sauce *v.* to put something into a liquid for a short time and take it out again
118. tr_____rm heat into power *v.* to change in outward structure or looks;
119. dem_____te a difference *v.* to display something or give an exhibition to an interested audience
120. a medical ins_____ion *n.* the act or process of fixing furniture, a machine, or a piece of equipment into position so that it can be used; the act or process of putting into an office or a position
121. the te_____ue applied to construction *n.* a particular way or art of doing something that needs skill
122. s__n thread out of cotton *v.* to cause something to rotate rapidly; to cause someone to feel dizzy or disoriented
123. the con_____on of food *n.* the amount used or eaten; the act of using up a resource such as energy, food, or materials
124. ta_____le assets *adj.* real and concrete; able to be perceived, especially able to be touched; (of business assets) having physical substance and intrinsic monetary value

ANSWERS: 115. labor, 116. analogy, 117. dip, 118. transform, 119. demonstrate, 120. installation, 121. technique, 122. spin, 123. consumption, 124. tangible

125. mi__o bubble *n.* extremely small in scale or scope; one millionth
126. the in_____cy of the design *n.* the quality of being complex, detailed, or highly involved; the existence of many interrelated parts or elements
127. op_____ze control for cooling *v.* to make the best or most effective use of something
128. as_____ly line *n.* a group of people who have been elected, especially one that meets regularly and makes decisions or laws for a specific region or country
129. au_____ed way *adj.* carried out by machines or computers to replace or decrease human labor
130. 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
131. a st___d of fine hair *n.* a very thin natural or synthetic thread, wire, hair, etc.; (verb) to leave or drive a vessel, fish, etc., aground or ashore
132. dem_____ion project *n.* a display or show, often of a particular skill or product, intended to convince or persuade others
133. industrial se___r *n.* a distinct part or division of something often used to refer to a segment of an economy or industry; an area or field of work or activity
134. co_____e an average score *v.* to make a mathematical calculation
135. a ra___m choice *adj.* made, done, or happening without method, conscious decision, or any regular pattern

ANSWERS: 125. micro, 126. intricacy, 127. optimize, 128. assembly, 129. automated, 130. structure, 131. strand, 132. demonstration, 133. sector, 134. compute, 135. random

136. re_____ne the future *v.* to imagine or conceive of something in a new or different way
137. p__p a secret out of success *v.* to cause water, air, gas, etc. to move from one place to another by using mechanical equipment; to get or supply something such as money, information, etc. in significant quantities
138. so_____re architect *n.* a set of computer programs and associated documentation and data for doing particular computational jobs
139. cast a tra_____ion spell *n.* a complete change in form, nature, or appearance of someone or something
140. br__e force *n.* a violent, wild, or feral animal; a person who is cruel, uncivilized, or lacking in intelligence or sensitivity; a physical force or power
141. bureaucratic ine_____ncy *n.* the lack of ability or effectiveness in producing the desired results or outcomes; the quality of being wasteful or unproductive
142. special de_____ry *n.* the act of taking or sending something to a destination; the bringing of a baby during childbirth
143. mac_____ic observation *adj.* visible to the naked eye; relating to objects or phenomena that are large enough to be seen without the aid of a microscope or other magnifying tools
144. 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)

ANSWERS: 136. reimagine, 137. pump, 138. software, 139. transformation, 140. brute, 141. inefficiency, 142. delivery, 143. macroscopic, 144. molecular

145. co_____e augmented reality *v.* to join or merge to form a single thing or group
146. un_____te waves *v.* to move with a smooth wavelike motion; to have a wavy form or outline
147. 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
148. average fuel con_____on *n.* the amount used or eaten; the act of using up a resource such as energy, food, or materials
149. st_____ht for two months *adj.* extending or moving in one direction without bending or curving; having no deviations
150. 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
151. na_____le device *adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
152. a st_____ht line *adj.* extending or moving in one direction without bending or curving; having no deviations
153. re_____nt our life *v.* to change something so drastically that it looks to be completely new

ANSWERS: 145. combine, 146. undulate, 147. movement, 148. consumption, 149. straight, 150. develop, 151. nanoscale, 152. straight, 153. reinvent

154. ha__h climate	<i>adj.</i> severe and unkind; extremely tough and unpleasant to inhabit
155. ma_____e amounts	<i>adj.</i> enormous amount; very heavy and solid
156. de_____te a chapter to the subject	<i>v.</i> to give all of your energy, time, etc., entirely to a specific person, activity, or cause; to set apart for a particular purpose or use
157. beginning of the industrial rev_____on	<i>n.</i> a large-scale attempt to overthrow the government of a country, often using violence or war;
158. student on a ti__t budget	<i>adj.</i> fixed, fastened, or kept together firmly or closely
159. a te_____ue in martial arts	<i>n.</i> a particular way or art of doing something that needs skill
160. col_____ion platform	<i>n.</i> the act or situation of working together to create or produce something
161. a sl__e trader	<i>n.</i> a person who is, either legally or illegally, owned by someone; a person entirely dominated by some influence or a person
162. a sl__e of drink	<i>n.</i> a person who is, either legally or illegally, owned by someone; a person entirely dominated by some influence or a person
163. medical l_b	<i>n.</i> a workplace for the conduct of scientific research; a laboratory
164. com_____ty theory	<i>n.</i> the state or quality of being complicated or intricate and difficult to understand

ANSWERS: 154. harsh, 155. massive, 156. dedicate, 157. revolution, 158. tight, 159. technique, 160. collaboration, 161. slave, 162. slave, 163. lab, 164. complexity

165. ind_____al freedom *n.* a single person or thing, as distinct from a group
166. chaotic env_____nt *n.* the natural world such as air, water, and land in which humans, animals, and plants live
167. spare co_____nts for cars *n.* one of several parts that combines with others to form something bigger
168. an easy de_____ry *n.* the act of taking or sending something to a destination; the bringing of a baby during childbirth
169. early pr_____pe *n.* a first or preliminary example of something such as a device or vehicle from which other forms are developed
170. co_____ct law *n.* a legally binding agreement between two or more parties, setting out their rights and obligations to each other, typically in writing and enforceable by law
171. permanent ma_____t *n.* an object or substance that can attract certain materials, such as iron or steel
172. cultural pa_____gm *n.* a standard or typical example of something; a pattern or model
173. the attraction of gr_____y *n.* the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn
174. Ar_____an romances *adj.* relating to king Arthur and the tales and legends associated with him
175. ma_____e stars *adj.* enormous amount; very heavy and solid

ANSWERS: 165. individual, 166. environment, 167. component, 168. delivery, 169. prototype, 170. contract, 171. magnet, 172. paradigm, 173. gravity, 174. Arthurian, 175. massive

176. rec_____re the operating system *v.* to change the configuration or arrangement of something, often to improve its performance or functionality
177. secret ing_____nts *n.* one of the things used to make something, especially one of the foods used to make a particular dish
178. de_____t accumulation *n.* a sum of money or materials placed or kept in a bank, safety deposit box, or other secure places for safekeeping; a layer of rock, sand, or other material left behind by a flowing liquid or eroding force
179. ind_____us worker *adj.* hardworking, diligent, and persistent in effort
180. 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
181. stress pr_____n *n.* a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues
182. s__n a top *v.* to cause something to rotate rapidly; to cause someone to feel dizzy or disoriented
183. in___e criticism *v.* to ask someone to come or join; to offer an opportunity or possibility for something to happen or take place
184. po__o epidemic *n.* an acute infectious disease caused by a virus that attacks nerve cells in the spinal cord and brain, leading to paralysis, muscle weakness, and potentially lifelong disability

ANSWERS: 176. reconfigure, 177. ingredient, 178. deposit, 179. industrious, 180. movement, 181. protein, 182. spin, 183. invite, 184. polio

185. man_____re a product *v.* to make goods in large numbers, usually in a factory using machines
186. el_____c waistband *adj.* flexible, resilient, or adaptable; (noun) a stretchy material or band that can be stretched and then returned to its original shape; something that is flexible and adaptable
187. 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
188. b__s against a big company *n.* a strong feeling in favor of or against one group of people, an idea, or thing, often not based on fair judgment
189. b__y emotion *v.* to place a dead body in the ground, grave, or tomb
190. pn_____ic tire *adj.* relating to or using air or gas under pressure, particularly in machinery or devices; operated by compressed air or gas
191. int_____on among human beings *n.* the act of connecting with someone, mainly when working, playing, or spending time with them
192. have a b__s toward socialism *n.* a strong feeling in favor of or against one group of people, an idea, or thing, often not based on fair judgment
193. crystalline si_____n *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

ANSWERS: 185. manufacture, 186. elastic, 187. structure, 188. bias, 189. bury, 190. pneumatic, 191. interaction, 192. bias, 193. silicon

194. cognitive com_____ty *n.* the state or quality of being complicated or intricate and difficult to understand
195. a tip of the b__k *n.* the hard and pointed or curved mouse of a bird
196. the int_____on between man and his environment *n.* the act of connecting with someone, mainly when working, playing, or spending time with them
197. a political rev_____on *n.* a large-scale attempt to overthrow the government of a country, often using violence or war;
198. pr_____s improvement *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
199. ex_____e weather events *adj.* very great in amount or degree
200. decision-making pr_____s *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
201. dem_____te mastery *v.* to display something or give an exhibition to an interested audience

ANSWERS: 194. complexity, 195. beak, 196. interaction, 197. revolution, 198. process, 199. extreme, 200. process, 201. demonstrate

202. legal in_____cy *n.* the quality of being complex, detailed, or highly involved; the existence of many interrelated parts or elements
203. ba_____ne curve *n.* the spinal column of a vertebrate; a symbolic representation of strength and resilience
204. mi__o force sensor *n.* extremely small in scale or scope; one millionth
205. produce ta_____le results *adj.* real and concrete; able to be perceived, especially able to be touched; (of business assets) having physical substance and intrinsic monetary value
206. Euclidean ge_____ry *n.* the area of pure mathematics that deals with the points, lines, curves, and surfaces

ANSWERS: 202. intricacy, 203. backbone, 204. micro, 205. tangible, 206. geometry

Session 3: Fill in the Blanks

1. The company signed a _____ with the supplier for the delivery of goods.
n. a legally binding agreement between two or more parties, setting out their rights and obligations to each other, typically in writing and enforceable by law
2. The company plans to _____ its new product at the trade show next week.
v. to reveal or make something publicly known, especially for the first time
3. How can you _____ that the earth is a sphere?
v. to display something or give an exhibition to an interested audience
4. 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
5. The body needs a certain amount of _____ to build and repair tissues.
n. a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues
6. The clockwork mechanism of the antique watch showed incredible _____.
n. the quality of being complex, detailed, or highly involved; the existence of many interrelated parts or elements
7. The mathematician pioneered fractal _____.
n. the area of pure mathematics that deals with the points, lines, curves, and surfaces
8. Eventually, the new design will _____ all older models.
v. to take the place of something

ANSWERS: 1. contract, 2. unveil, 3. demonstrate, 4. complexity, 5. protein, 6. intricacy, 7. geometry, 8. replace

9. Hydrogen and oxygen _____ to form water.
v. to join or merge to form a single thing or group
10. The technology _____ is constantly evolving and innovating.
n. a distinct part or division of something often used to refer to a segment of an economy or industry; an area or field of work or activity
11. _____ the text from Italian into English.
v. to convert or change words into another language
12. 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
13. The Prime Minister will pay a courtesy visit to the Nobel laureate's _____.
n. a workplace for the conduct of scientific research; a laboratory
14. _____ amounts of heckling and slogan-shouting took place throughout the event.
adj. never having been seen, done, or known before
15. Greed is the primary _____ in the making of criminals.
n. one of the things used to make something, especially one of the foods used to make a particular dish
16. The company's _____ in handling customer requests led to many complaints.
n. the lack of ability or effectiveness in producing the desired results or outcomes; the quality of being wasteful or unproductive

ANSWERS: 9. combine, 10. sector, 11. Translate, 12. movement, 13. lab, 14. Unprecedented, 15. ingredient, 16. inefficiency

17. She showed great _____ when standing up for her beliefs in opposition.
n. the spinal column of a vertebrate; a symbolic representation of strength and resilience
18. You should work hard but not be a _____ to it.
n. a person who is, either legally or illegally, owned by someone; a person entirely dominated by some influence or a person
19. The doctor prescribed some medicine for the mental _____.
n. an untidy state or a lack of organization; a physical condition or illness that causes problems with how a section of the body or brain functions
20. The researchers try to discover a common _____ in all types of successful organizations.
n. one of several parts that combines with others to form something bigger
21. Please ___ up a bucketful of water from the well.
v. to put something into a liquid for a short time and take it out again
22. 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
23. Understanding unitary _____ of a normal matrix require considerable mathematical sophistication.
n. a complete change in form, nature, or appearance of someone or something
24. There is plenty of space to _____ everyone.
v. to place a dead body in the ground, grave, or tomb

ANSWERS: 17. backbone, 18. slave, 19. disorder, 20. component, 21. dip, 22. magnets, 23. transformations, 24. bury

25. I cut the cheese into small _____ for the salad.
- n.* a three-dimensional shape with six square faces that are all equal in size; (of mathematics) the result of multiplying the number by itself three times
26. We want to _____ you to our annual charity event.
- v.* to ask someone to come or join; to offer an opportunity or possibility for something to happen or take place
27. Please refrigerate the meat, or it will ____.
- v.* to decay, or cause something to decay, naturally and gradually
28. The _____ chip in my credit card allows me to make contactless payments.
- adj.* fixed firmly into the surface of something
29. This process improves the strength of the metal by controlling the _____ lattice structure of the metal.
- adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
30. In several countries, child _____ is a serious social problem.
- n.* productive work, especially physical work done for wages; the people who do manual or physical work in a country or company for wage; (verb) to work hard or to strive and make an effort to reach a goal
31. Some kinds of machine learning models show an _____ to how people learn.
- n.* a comparison between similar things that have similar aspects, often used to help explain a principle or concept
32. Energy-efficient _____ are needed to maximize the cruising distance of electric vehicles.
- n.* a device that converts electricity, fuel, etc. into movement and makes a machine, vehicle, etc. work

ANSWERS: 25. cubes, 26. invite, 27. rot, 28. embedded, 29. nanoscale, 30. labor, 31. analogy, 32. motors

33. I had an _____ feeling that I might be pregnant.

adj. obtained through feelings rather than facts or proof

34. Aging societies tend to require huge costs for _____ maintenance.

n. the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies

35. The astronaut felt weightless in space due to the absence of _____.

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

36. The idea of a superhuman _____ army is a popular trope in action movies.

n. a being that is part human and part machine or technology, often created through the integration of electronic and mechanical devices

37. The mobile phone was still _____ even after being dropped.

adj. designed for or capable of a particular activity, purpose, or task; practical or ready for use or service

38. 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

39. The snake _____ its way through the underbrush, silently stalking its prey.

v. to move with a smooth wavelike motion; to have a wavy form or outline

40. I made a _____ at the bank to add money to my account.

n. a sum of money or materials placed or kept in a bank, safety deposit box, or other secure places for safekeeping; a layer of rock, sand, or other material left behind by a flowing liquid or eroding force

ANSWERS: 33. intuitive, 34. infrastructure, 35. gravity, 36. cyborg, 37. functional, 38. biology, 39. undulated, 40. deposit

41. The president prepared several possible _____ for an enemy attack.
n. a description of possible actions or events in the future; a written outline of a play, film, or literary work
42. The _____ by the citizen resulted in a redistribution of wealth.
n. a large-scale attempt to overthrow the government of a country, often using violence or war;
43. The essence of economics is to _____ the allocation of limited resources.
v. to make the best or most effective use of something
44. The _____ learning system adjusts the difficulty level of the lessons based on the student's performance.
adj. capable of adjusting to new situations or changing conditions
45. In our country, water _____ usually decreases during the winter.
n. the amount used or eaten; the act of using up a resource such as energy, food, or materials
46. My father's death _____ my life completely.
v. to change in outward structure or looks;
47. _____ 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
48. He postulated a completely different _____ to explain all these phenomena.
n. a standard or typical example of something; a pattern or model

ANSWERS: 41. scenarios, 42. revolution, 43. optimize, 44. adaptive, 45. consumption, 46. transformed, 47. Silicon, 48. paradigm

49. I tried to _____ the efficiency of the investment.
v. to make a mathematical calculation
50. The _____ behavior of the football players caused the game to be canceled.
n. a violent, wild, or feral animal; a person who is cruel, uncivilized, or lacking in intelligence or sensitivity; a physical force or power
51. Thousands of people attended the protest _____ against the proposed policy.
n. a display or show, often of a particular skill or product, intended to convince or persuade others
52. _____ 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)
53. The skin of a snake is remarkably _____ allowing it to slither through tight spaces.
adj. flexible, resilient, or adaptable; (noun) a stretchy material or band that can be stretched and then returned to its original shape; something that is flexible and adaptable
54. The tornado is _____ across the countryside, destroying everything in its path.
v. to cause something to rotate rapidly; to cause someone to feel dizzy or disoriented
55. Jockey's superior _____ brought him victory.
n. a particular way or art of doing something that needs skill

ANSWERS: 49. compute, 50. brute, 51. demonstration, 52. Molecular, 53. elastic, 54. spinning, 55. technique

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

adj. capable of governing or controlling its affairs

57. The plant will continue operating through an _____ system 24 hours a day.

adj. carried out by machines or computers to replace or decrease human labor

58. The intestines' _____ movement helps propel food through the digestive system.

adj. relating to the rhythmic contraction and relaxation of muscles that create wave-like movements, particularly referring to the action of peristalsis, which is the movement of food through the digestive tract

59. They have tried to _____ their grocery stores.

v. to change something so drastically that it looks to be completely new

60. Overall _____ are approximately 400x200mm.

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

61. A problem that has been pointed out for years finally becomes _____.

adj. real and concrete; able to be perceived, especially able to be touched; (of business assets) having physical substance and intrinsic monetary value

62. The flying car is presently in the _____ stage.

n. a first or preliminary example of something such as a device or vehicle from which other forms are developed

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

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

ANSWERS: 56. autonomous, 57. automated, 58. peristaltic, 59. reinvent, 60. dimensions, 61. tangible, 62. prototype, 63. manufactured

64. This company's _____ plant is an enormous facility.
- n.* a group of people who have been elected, especially one that meets regularly and makes decisions or laws for a specific region or country
65. I want to _____ a toast in honor of our longstanding relationship.
- v.* to make a proposal, declare a plan for something
66. The surgeon made an incision in the _____ of the patient's heart.
- n.* a large room used for a formal, public, or particular purpose; one of the parts of a parliament
67. The _____ for applying for a visa can be lengthy and complicated.
- n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
68. Solar gravity creates _____ pressures and temperatures.
- adj.* very great in amount or degree
69. She researched gender _____ in politics.
- n.* a strong feeling in favor of or against one group of people, an idea, or thing, often not based on fair judgment
70. The _____ on the pipeline was leaking, so maintenance had to shut it off to make repairs.
- n.* a device for controlling the flow of a fluid or gas through a pipe or duct by means of a movable part that opens, closes, or restricts the opening
71. He _____ his life to helping others.
- v.* to give all of your energy, time, etc., entirely to a specific person, activity, or cause; to set apart for a particular purpose or use

ANSWERS: 64. assembly, 65. propose, 66. chambers, 67. process, 68. extreme, 69. bias, 70. valve, 71. dedicated

72. The partnership program requires a mutual _____ between both agencies.

n. the act or situation of working together to create or produce something

73. The company specializes in both hardware and _____.

n. a set of computer programs and associated documentation and data for doing particular computational jobs

74. We need to _____ the office layout to use the space better.

v. to change the configuration or arrangement of something, often to improve its performance or functionality

75. Every human is responsible for taking care of the Earth's _____.

n. the natural world such as air, water, and land in which humans, animals, and plants live

76. The Queen attested the _____ of state ministers to their portfolios.

n. the act or process of fixing furniture, a machine, or a piece of equipment into position so that it can be used; the act or process of putting into an office or a position

77. He was alert and could not _____ any critical information out of him.

v. to cause water, air, gas, etc. to move from one place to another by using mechanical equipment; to get or supply something such as money, information, etc. in significant quantities

78. The president began to _____ an army.

v. to collect in one place as a single group

79. As an _____ he had the right to make his own decisions and live his life as he saw fit.

n. a single person or thing, as distinct from a group

ANSWERS: 72. collaboration, 73. software, 74. reconfigure, 75. environment, 76. installation, 77. pump, 78. assemble, 79. individual,

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

adj. enormous amount; very heavy and solid

81. The national election was held amid _____ security.

adj. fixed, fastened, or kept together firmly or closely

82. The mechanic used a _____ drill to repair the engine.

adj. relating to or using air or gas under pressure, particularly in machinery or devices; operated by compressed air or gas

83. 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

84. The company _____ a tracking code in the product's packaging to monitor its shipment.

v. to fix or set firmly in a surrounding mass

85. The prime minister faced _____ criticism.

adj. severe and unkind; extremely tough and unpleasant to inhabit

86. Don't _____ your mosquito bites.

v. to cut or damage the surface of something or the skin with a sharp or pointed object

87. He was known to be very _____ and would often work late into the night.

adj. hardworking, diligent, and persistent in effort

ANSWERS: 80. massive, 81. tight, 82. pneumatic, 83. develop, 84. embedded, 85. harsh, 86. scratch, 87. industrious

88. This approach employs both _____ and macro analysis methods.
n. extremely small in scale or scope; one millionth
89. They hope to _____ their business worldwide.
v. to increase or to make something greater in size, number, or importance
90. The _____ truck arrived with the packages.
n. the act of taking or sending something to a destination; the bringing of a baby during childbirth
91. He _____ hypotheses that no mathematician has ever imagined before.
v. to build or create something; to assemble or combine different parts to form something whole
92. The company is trying to _____ its business model to stay competitive.
v. to imagine or conceive of something in a new or different way
93. The _____ view of the galaxy is simply breathtaking.
adj. visible to the naked eye; relating to objects or phenomena that are large enough to be seen without the aid of a microscope or other magnifying tools
94. The _____ vaccine development is regarded as one of the greatest medical achievements of the 20th century.
n. an acute infectious disease caused by a virus that attacks nerve cells in the spinal cord and brain, leading to paralysis, muscle weakness, and potentially lifelong disability
95. To find drunk drivers, police conduct _____ tests.
adj. made, done, or happening without method, conscious decision, or any regular pattern

ANSWERS: 88. micro, 89. expand, 90. delivery, 91. constructs, 92. reimagine, 93. macroscopic, 94. polio, 95. random

96. I heard several melodic _____ simultaneously.

n. a very thin natural or synthetic thread, wire, hair, etc.; (verb) to leave or drive a vessel, fish, etc., aground or ashore

97. The bird's _____ evolves according to the type of prey it can take on the area.

n. the hard and pointed or curved mouse of a bird

98. 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

99. He was sick for five _____ days.

adj. extending or moving in one direction without bending or curving; having no deviations

100. The _____ legends of King Arthur and the knights of the Round Table are popular literary motifs.

adj. relating to king Arthur and the tales and legends associated with him

101. It would be best if you did not demand such an _____ charge.

adj. greater than what seems necessary, normal, or desirable

102. 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

103. 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

ANSWERS: 96. strands, 97. beak, 98. virus, 99. straight, 100. Arthurian, 101. excessive, 102. interaction, 103. structure

ANSWERS: