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Vocabulary Builder Reference from...

George Zaidan: Why your phone battery gets worse over time | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

gasoline

n. a volatile flammable liquid obtained from petroleum, used mainly as a fuel in car engines, etc.

synonym : gas, petrol, fuel

(1) lead-free **gasoline**, (2) small **gasoline** engine

Luxury cars often require high-octane **gasoline** as fuel.

battery

n. a device that is placed inside a car, gadget, equipment, etc. and that provides electrical power to them

synonym : electric cell, array, batch

(1) a dry **battery**, (2) **battery** charging

The engine did not start because the **battery** was flat.

expend

v. to use or spend time, money, energy, etc.

synonym : disburse, spend, pay

(1) **expend** a great deal of energy, (2) **expend** time and resources

Billionaires tend to **expend** private funds on a public undertaking.

recyclability

n. the degree to which a material or product can be reused or repurposed after it has served its original function, without requiring significant modifications or environmental harm

synonym : reusability, sustainability, renewability

(1) **recyclability** rate, (2) low **recyclability** problem

The **recyclability** of electronic devices is a significant challenge due to the complexity of their components.

chemical

adj. relating to or connected with chemistry;

synonym : chemic, synthetic

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

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

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.

release

v. to set free or allow to escape from confinement

synonym : free, let go, discharge

(1) **release** a prisoner, (2) **release** CO2 into the air

The animal rights group worked to **release** the dolphins back into the wild.

electron

n. a tiny particle with the negative electrical charge

synonym : negatron

(1) flow of **electrons**, (2) beam of **electrons**

The outermost **electron** shell determines the chemical properties of an atom.

typical

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

synonym : characteristic, usual, distinctive

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

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

alkaline

adj. having a pH greater than 7, meaning it is basic rather than acidic; having properties or characteristics similar to an alkali

synonym : basic, caustic, high pH

(1) **alkaline** water, (2) **alkaline** food

An **alkaline** environment is necessary for certain types of plants to grow.

zinc

n. a metallic element that is found in small amounts in the earth's crust and is used in the manufacture of brass and alloys, and is required to maintain human's health

synonym : Zn

(1) good source of **zinc**, (2) **zinc** deficiency

Zinc supplements are often recommended for people who are deficient in this mineral.

react

v. to take action in response to something

synonym : respond, reply, oppose

(1) **react** at a high temperature, (2) **react** against his way of thinking

How did he **react** to your idea?

hydroxide

n. a chemical compound characterized by the presence of one or more hydroxyl groups (-OH), which can either act as a base or be neutralized by an acid to form a salt or water

synonym : base, lye, alkali

(1) **hydroxide** catalyst, (2) sodium **hydroxide** solution

Aluminum **hydroxide** is used in the treatment of stomach ulcers and heartburn.

ion

n. an atom or molecule that has a positive or negative electrical charge caused by its losing or gained one or more electrons

(1) **ion** channel, (2) rechargeable lithium- **ion** battery

The increased concentration of **ion** of hydrogen ions in an aqueous solution makes it more acidic.

oxide

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

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

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

negative

adj. having the quality of something bad or harmful; expressing refusal

synonym : minus, adverse, pessimistic

(1) have a **negative** effect, (2) a **negative** number

The movie has received almost universally **negative** criticism.

terminal

n. a building or place where buses, trains, or airplanes stop and where passengers or goods can be picked up or dropped off; (adjective) of or situated at the ends of a delivery route

synonym : endpoint, final, concluding

(1) **terminal** disease, (2) a **terminal** syllable

The **terminal** at the airport is where passengers catch their flights.

bulb

n. a rounded underground storage organ of some plants from which the plant grows; the rounded part of a cylindrical structure; electric lamp consisting of a glass ball

(1) wet- **bulb** thermometer, (2) a lily **bulb**

The light **bulb** has burned out.

manganese

n. a chemical element with the symbol Mn and atomic number 25, commonly used in steel production and other alloys

synonym : Mn

(1) **manganese** nodules, (2) **manganese** steel

Manganese dioxide is used as a catalyst in some chemical reactions.

combination

n. a collection of things that have been combined; an assemblage of separate parts or qualities

synonym : blend, hybrid, compounding

(1) genic **combinations**, (2) **combination** number

The **combination** to the safe was a secret.

graphite

n. a soft, black, lustrous form of carbon that is conductive and used as a lubricant and in pencils and electrodes in electrical devices

synonym : carbon, black lead, plumbago

(1) **graphite** pencil, (2) **graphite** mine

The **graphite** in the brake pads helps to reduce friction during braking.

reaction

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

synonym : response, reply, answer

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

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

stream

n. a small, narrow river; a continuous flow of something, such as liquid, gas, people, vehicles, etc.

synonym : flow, current, brook

(1) the **stream** of time, (2) an endless **stream** of cars

Jet **streams** are the common name for air currents that form high in the atmosphere.

theoretical

adj. relating to the concepts and principles upon which a particular topic is founded, rather than practice and experience

synonym : conceptual, conjectural, ideal

(1) **theoretical** models, (2) **theoretical** physicist

Absolute zero is the lowest **theoretical** temperature.

recharge

v. to restore the energy or power of something by supplying it with more energy or power; to refresh or renew oneself by rest or sleep

synonym : renew, refresh, replenish

(1) **recharge** brain and body, (2) **recharge** energy

He needed to **recharge** his phone before the meeting.

liquid

n. a substance, such as water or oil that flows freely and is neither a solid nor a gas

synonym : fluid

(1) colorless **liquid**, (2) hazardous **liquid**

The sponge takes up the **liquid** well.

hydrocarbon

n. an organic compound consisting entirely of hydrogen and carbon

(1) **hydrocarbon** production, (2) **hydrocarbon** molecules in crude oil

Burning **hydrocarbons** releases water vapor and carbon dioxide.

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.

convert

v. to have a talk with someone; (adjective) reversed in order, relation, or action

synonym : alter, remake, transform

(1) **convert** fat into energy, (2) **convert** base 10 to base 16

I want to **convert** my sadness into strength.

exhaust

n. the system in a vehicle that removes waste gases from the engine; (verb) to make someone completely tired

synonym : emission, fumes, (verb) deplete

(1) **exhaust** pipe, (2) **exhaust** a topic

The factory's **exhaust** fumes polluted the air and affected the

health of the nearby residents.

reverse

v. to change something's direction, order, position, decision, etc., to the opposite one; (adjective) directed or moving toward the rear

synonym: overturn, shift, switch

(1) **reverse** the trend, (2) **reverse** the order

The restaurant **reversed** a ban on smoking.

bunch

n. a grouping of several similar things which are growing or fastened together

synonym: group, assemblage, bundle

(1) a **bunch** of trees, (2) a **bunch** of schoolgirls

One bad apple spoils the whole **bunch**.

useless

adj. not serving any useful purpose; having no practical result

synonym: ineffectual, unhelpful, worthless

(1) **useless** information, (2) **useless** in the kitchen

The old, rusty tools were now **useless** and had to be thrown away.

contaminate

v. to make something impure, unclean, or poisonous by contact or mixture

synonym: defile, pollute, adulterate

(1) **contaminate** with a disease, (2) **contaminate** his ego

We strive not to **contaminate** the environment when demolishing petroleum plants.

damage

v. to harm or cause injury to something or someone, often resulting in decreased value or functionality; to impair or negatively affect something, such as a reputation or relationship; (noun) harm or injury that is caused to a person, thing, or entity

synonym: harm, impair, injure

(1) **damage** a relationship, (2) **damage** assessment

During the surgery, the doctor had to be extremely cautious

not to **damage** a blood vessel.

internal

adj. of or relating to the inside of something

synonym : interior, inner, domestic

(1) **internal** organs, (2) the **internal** economy

The prime minister canceled visits to other countries to resolve **internal** disputes.

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.

electrical

adj. relating to electricity

(1) an **electrical** storm, (2) degree in **electrical** engineering

Actuators convert **electrical** pulses into motion.

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.

lithium

n. a soft, silvery-white metal that is highly reactive and used in batteries, alloy production, and medications for bipolar disorder

synonym : lithy, Li, salt

(1) **lithium** carbonate, (2) **lithium** mining

Lithium-ion batteries are commonly used in laptops, smartphones, and electric vehicles.

atomic

adj. of or relating to atom (= the smallest component of an element)

synonym : tiny, microscopic, nuclear

(1) **atomic** nucleus, (2) **atomic** bomb

Carbon has an **atomic** mass of 12.

dock

n. a structure or platform that extends from the shoreline into a body of water, used for loading and unloading ships or boats; an enclosed area of water used as a basin for shipping or pleasure boats; a place where a ship can be repaired or maintained

synonym : harbor, pier, quay

(1) fishing **dock**, (2) loading **dock**

The ship pulled to the **dock**, and we disembarked to start our adventure.

circuit

n. (in electrical engineering) an electrical device that provides a path for electrical current to flow; a journey or route around a particular place or area

synonym : route, course, rotation

(1) **circuit** breaker, (2) federal **circuit** courts

An intelligent battery has a voltage monitoring **circuit**.

orderly

adj. clean or organized in a neat, careful and logical way

synonym : tidy, tidied, neat

(1) **orderly** and fair market, (2) **orderly** manner

The elections were handled in a timely and **orderly** manner.

opposition

n. the act of disagreeing or resisting; the state of strong disagreement

synonym : resistance, hostility, antagonism

(1) **opposition** campaign, (2) meet with **opposition**

The **opposition** party strongly disagreed with the government's proposed legislation.

veer

v. to change direction suddenly or sharply; to turn or swerve from one course or direction to another

synonym : swerve, diverge, shift

(1) **veer** toward danger, (2) **veer** to the left

The car **veered** off the road and crashed into a tree.

engage

v. to attract and keep someone's attention and interest; to participate in or obtain services of something

synonym: confront, employ, amuse

(1) **engage** in environmental protection activities,

(2) **engage** a new employee

Many multinational companies are **engaged** in the reconstruction of that country.

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.

efficiency

n. the state or quality of doing something well with no waste of input such as time or money

synonym: effectiveness, efficacy, productivity

(1) better fuel **efficiency**, (2) an energy **efficiency**

Our company must continue to strive for greater **efficiency**.

inevitably

adv. in a manner that cannot be avoided or prevented

synonym: unavoidably, necessarily, surely

(1) **inevitably** decline with age, (2) **inevitably** reach the consumer

Because of his excellent performance, he will **inevitably** be promoted.

recycle

v. to sort and collect things to process them and produce valuable materials that can be used again

synonym: reclaim, reuse, reprocess

(1) **recycle** the cardboard boxes, (2) **recycle** milk packaging into new paper

We largely **recycle** the circuit board of cell phones because

they contain a lot of valuable metals.

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.

melt

v. to turn from something solid into something soft or liquid as a result of heating

synonym : disintegrate, soften, disappear

(1) **melt** the ice, (2) **melt** down gold

Her resistance **melted** under his persuasion.

metallic

adj. relating to or resembling metal; having a shiny, silvery, or reflective quality; characterized by strength, durability, or toughness

synonym : metal

(1) **metallic** taste, (2) **metallic** object

The jewelry shop featured a wide array of **metallic** accessories made of gold, silver, and copper.

impure

adj. mixed with other substances or foreign matter; (of persons or behaviors) immoral or obscene, especially in sexual matters

synonym : contaminated, polluted, unclean

(1) **impure** water, (2) **impure** thoughts

In some religions, pork is deemed **impure**.

initial

adj. of or happening at the beginning; (noun) the first letter of a word, especially a person's name

synonym : basic, primary, beginning

(1) **initial** velocity, (2) an **initial** letter

They took the **initial** step toward reconciliation.

unfortunately

adv. by bad luck; unluckily

synonym : regrettably, unluckily, alas

(1) **unfortunately** caught in a shower, (2) even more **unfortunately**

The treatments were done but, **unfortunately**, were unsuccessful.

toss

v. to throw something carelessly with a light motion

synonym : throw, sway

(1) **toss** a coin, (2) **toss** the bottle into a trash can

It would be best if you **tossed** out all those old magazines.

complicated

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

synonym : complex, convoluted, intricate

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

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

absolutely

adv. without restriction or limitation; completely or utterly

synonym : completely, utterly, definitely

(1) **absolutely** against, (2) **absolutely** obsessed with the girl

I am **absolutely** opposed to his idea because of morality.

critic

n. someone who expresses opinions about the quality of books, music, etc.

synonym : pundit, analyst, attacker

(1) art **critic**, (2) severe **critic**

Advocates for legal reform hear less harsh words from their **critics**.

toxic

adj. of or relating to or caused by a poison; poisonous

synonym : poisonous, harmful, contaminated

(1) **toxic** molecule, (2) exposure to **toxic** chemicals

This chemical compound is a thousand-fold more **toxic**.

leak

v. to allow liquid or gas to get in or out from a hole or crack in a pipe or container

synonym : outflow, divulge, disclose

(1) **leak** data, (2) **leak** a classified memo

He **leaked** serious accounting irregularities that only people in the company's executive could know.

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**.

conserve

v. to protect something, especially the natural environment or culture, from change, damage, or destruction

synonym : preserve, save, maintain

(1) means to **conserve** energy, (2) **conserve** coal resources

Children must be taught to **conserve** our natural environment.

scarce

adj. not abundant or plentiful, and therefore not easy to find or obtain

synonym : rare, limited, sparse

(1) **scarce** resources, (2) capital- **scarce** country

Fresh water is becoming increasingly **scarce** in many parts of the world.

vital

adj. necessary for the success or continued existence of something

synonym : critical, crucial, invigorating

(1) play a **vital** role, (2) **vital** for a healthy society

Perseverance and optimism are **vital** to success.

emission

n. the act of production or sending out gas, heat, light, etc.
synonym : emanation, radiation, discharge

(1) global **emissions** of greenhouse gases, (2) the **emission** of light

There are five distinct **emissions** at five unique wavelengths.

laptop

n. a portable computer that is small enough to be carried around easily and used on your lap

(1) bring my **laptop**, (2) thin-and-light **laptop**

I need to finish this report by tonight, so I'll be working on my **laptop** all day.

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.

intricate

adj. having many different parts and small details that all work together

synonym : complicated, convoluted, complex

(1) **intricate** details, (2) **intricate** lacework

The politician managed to deal with that **intricate** issue.

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.

indestructible

adj. impossible to destroy or damage beyond repair

synonym : unbreakable, sturdy, durable

(1) **indestructible** warrior, (2) **indestructible** object

The vault was advertised as **indestructible** but was eventually broken into.

glue

n. a sticky substance used for joining things together; a bonding agent made from animal or synthetic materials

synonym: adhesive, paste, gum

(1) **glue** stick, (2) epoxy **glue**

The carpenter applied **glue** to the cabinet joints before nailing them together.

regulation

n. an official rule made and maintained by a government or some other authority; the act of controlling or directing something according to a rule

synonym: constraint, restriction, rule

(1) a company **regulation**, (2) **regulation** by the government

The **regulation** approved by Congress was perfunctorily implemented.

define

v. to state or explain precisely the nature, scope, or meaning of something

synonym: characterize, depict, express

(1) **define** a word, (2) **define** my position

To advance this discussion, we must **define** "success" rigorously.

responsible

adj. answerable or accountable for something within one's power, control, or management

synonym: accountable, answerable, liable

(1) **responsible** action, (2) **responsible** for a customer service

She's a **responsible** pet owner who ensures her dog gets enough exercise and a healthy diet.

boost

v. to improve, raise, or increase something

synonym: raise, advance, promote

(1) **boost** the economy, (2) **boost** flexibility
The new service helped **boost** net income by 10%.

dramatically

adv. in a very impressive manner

synonym : greatly, noticeably, suddenly

(1) he confessed **dramatically**, (2) the cabin pressure fell **dramatically**

Life expectancy has grown **dramatically** this century.

acid

n. sour; water-soluble chemicals with a sour flavor; any of a variety of generally liquid compounds capable of reacting with and occasionally dissolving other materials

synonym : SOUR

(1) an **acid** reaction, (2) good source of essential amino **acids**

During pregnancy, the stomach generates less **acid** than usual.

stringent

adj. strict, severe, or demanding; requiring close attention to rules or regulations; extreme or excessive in some way

synonym : strict, rigorous, demanding

(1) **stringent** measures, (2) **stringent** requirements

The school has a **stringent** attendance policy that allows for no more than three absences per semester.

byproduct

n. a secondary or incidental product produced in the manufacture or synthesis of something else

synonym : side effect, spinoff, outgrowth

(1) toxic **byproducts**, (2) **byproduct** of technology

The **byproduct** of the energy production process is a large amount of carbon dioxide emissions.

addition

n. the act or process of adding something to something else; the process of adding numbers

synonym : accumulation, expansion, addendum

(1) chemical **addition**, (2) **addition** of vectors

In **addition**, private corporations provide healthcare services.

industrial

adj. of or relating to or resulting from industry

synonym : manufacturing, mechanical

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

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

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.

technological

adj. based on scientific and industrial progress

synonym : specialized, technical

(1) **technological** advancement, (2) **technological** policy

Technological advances have disrupted many industries.

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.

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.

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.

ambient

- adj.* relating to the immediate surroundings of something; creating a particular atmosphere or mood, often through sound or lighting

synonym: atmospheric, surrounding, encompassing

(1) **ambient** temperature, (2) **ambient** air pollution

The **ambient** lighting in the restaurant created a cozy and romantic atmosphere.

electrify

- v. to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something

synonym: wire, amaze, astonish

(1) **electrify** the audience, (2) **electrify** a manufacturing process

The product developed through years of research continues to **electrify** the market.

priority

- n. something that is more important than other things and should be dealt with first

synonym: importance, precedence, primacy

(1) **priority** call, (2) **priority** seating for elderly

Her **priority** is to be a mother.

urine

- n. a liquid by-product of metabolism in humans and in many other animals that are released from the body when you urinate

synonym: excrement, dung, pee

(1) **urine** composition, (2) blood in the **urine**
They collected a **urine** specimen for urinalysis.

Session 2: Spelling

- | | |
|---|---|
| 1. abs_____ly obsessed with the girl | <i>adv.</i> without restriction or limitation; completely or utterly |
| 2. a ne_____ve number | <i>adj.</i> having the quality of something bad or harmful; expressing refusal |
| 3. con_____te with a disease | <i>v.</i> to make something impure, unclean, or poisonous by contact or mixture |
| 4. the_____al models | <i>adj.</i> relating to the concepts and principles upon which a particular topic is founded, rather than practice and experience |
| 5. the em_____on of light | <i>n.</i> the act of production or sending out gas, heat, light, etc. |
| 6. hazardous li____d | <i>n.</i> a substance, such as water or oil that flows freely and is neither a solid nor a gas |
| 7. en____e in environmental protection activities | <i>v.</i> to attract and keep someone's attention and interest; to participate in or obtain services of something |
| 8. z__c deficiency | <i>n.</i> a metallic element that is found in small amounts in the earth's crust and is used in the manufacture of brass and alloys, and is required to maintain human's health |
| 9. ur__e composition | <i>n.</i> a liquid by-product of metabolism in humans and in many other animals that are released from the body when you urinate |

ANSWERS: 1. absolutely, 2. negative, 3. contaminate, 4. theoretical, 5. emission, 6. liquid, 7. engage, 8. zinc, 9. urine

- | | | |
|---------------------------------------|-----------|---|
| 10. genic com_____ons | <i>n.</i> | a collection of things that have been combined; an assemblage of separate parts or qualities |
| 11. el_____fy a manufacturing process | <i>v.</i> | to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something |
| 12. opp_____on campaign | <i>n.</i> | the act of disagreeing or resisting; the state of strong disagreement |
| 13. env_____nt affairs | <i>n.</i> | the natural world such as air, water, and land in which humans, animals, and plants live |
| 14. blood in the ur__e | <i>n.</i> | a liquid by-product of metabolism in humans and in many other animals that are released from the body when you urinate |
| 15. lead-free ga_____ne | <i>n.</i> | a volatile flammable liquid obtained from petroleum, used mainly as a fuel in car engines, etc. |
| 16. ex__d time and resources | <i>v.</i> | to use or spend time, money, energy, etc. |
| 17. reg_____on by the government | <i>n.</i> | an official rule made and maintained by a government or some other authority; the act of controlling or directing something according to a rule |
| 18. re_____ge energy | <i>v.</i> | to restore the energy or power of something by supplying it with more energy or power; to refresh or renew oneself by rest or sleep |

ANSWERS: 10. combination, 11. electrify, 12. opposition, 13. environment, 14. urine, 15. gasoline, 16. expend, 17. regulation, 18. recharge

19. ma_____se steel *n.* a chemical element with the symbol Mn and atomic number 25, commonly used in steel production and other alloys
20. g__e stick *n.* a sticky substance used for joining things together; a bonding agent made from animal or synthetic materials
21. abs_____ly against *adv.* without restriction or limitation; completely or utterly
22. rechargeable lithium-i_n battery *n.* an atom or molecule that has a positive or negative electrical charge caused by its losing or gained one or more electrons
23. con_____te his ego *v.* to make something impure, unclean, or poisonous by contact or mixture
24. ex_____t a topic *n.* the system in a vehicle that removes waste gases from the engine; (verb) to make someone completely tired
25. colorless li____d *n.* a substance, such as water or oil that flows freely and is neither a solid nor a gas
26. a ch_____al compound *adj.* relating to or connected with chemistry;
27. in_____l velocity *adj.* of or happening at the beginning; (noun) the first letter of a word, especially a person's name
28. fairly ty_____l symptoms *adj.* having the usual characteristics or traits of a specific group of things
29. re_____e the order *v.* to change something's direction, order, position, decision, etc., to the opposite one; (adjective) directed or moving toward the rear

ANSWERS: 19. manganese, 20. glue, 21. absolutely, 22. ion, 23. contaminate, 24. exhaust, 25. liquid, 26. chemical, 27. initial, 28. typical, 29. reverse

30. ind_____al freedom *n.* a single person or thing, as distinct from a group
31. res_____le action *adj.* answerable or accountable for something within one's power, control, or management
32. means to co_____ve energy *v.* to protect something, especially the natural environment or culture, from change, damage, or destruction
33. 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
34. he confessed dra_____lly *adv.* in a very impressive manner
35. gr_____te pencil *n.* a soft, black, lustrous form of carbon that is conductive and used as a lubricant and in pencils and electrodes in electrical devices
36. res_____le for a customer service *adj.* answerable or accountable for something within one's power, control, or management
37. re_____ge brain and body *v.* to restore the energy or power of something by supplying it with more energy or power; to refresh or renew oneself by rest or sleep
38. play a vi__l role *adj.* necessary for the success or continued existence of something

ANSWERS: 30. individual, 31. responsible, 32. conserve, 33. process, 34. dramatically, 35. graphite, 36. responsible, 37. recharge, 38. vital

39. us____s information *adj.* not serving any useful purpose; having no practical result
40. en____er shortage *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
41. to__c molecule *adj.* of or relating to or caused by a poison; poisonous
42. fishing d__k *n.* a structure or platform that extends from the shoreline into a body of water, used for loading and unloading ships or boats; an enclosed area of water used as a basin for shipping or pleasure boats; a place where a ship can be repaired or maintained
43. ex____t pipe *n.* the system in a vehicle that removes waste gases from the engine; (verb) to make someone completely tired
44. a bu__h of schoolgirls *n.* a grouping of several similar things which are growing or fastened together
45. man____re an enzyme *v.* to make goods in large numbers, usually in a factory using machines
46. co____t fat into energy *v.* to have a talk with someone; (adjective) reversed in order, relation, or action
47. global em____ons of greenhouse gases *n.* the act of production or sending out gas, heat, light, etc.
48. thin-and-light la____p *n.* a portable computer that is small enough to be carried around easily and used on your lap
49. l__k a classified memo *v.* to allow liquid or gas to get in or out from a hole or crack in a pipe or container

ANSWERS: 39. useless, 40. engineer, 41. toxic, 42. dock, 43. exhaust, 44. bunch, 45. manufacture, 46. convert, 47. emission, 48. laptop, 49. leak

50. ind_____ble warrior *adj.* impossible to destroy or damage beyond repair
51. sc___e resources *adj.* not abundant or plentiful, and therefore not easy to find or obtain
52. us_____s in the kitchen *adj.* not serving any useful purpose; having no practical result
53. chemical re_____on *n.* a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others
54. ine_____ly reach the consumer *adv.* in a manner that cannot be avoided or prevented
55. co_____t car *n.* an idea or principle associated with something abstract
56. ex___d a great deal of energy *v.* to use or spend time, money, energy, etc.
57. com_____on number *n.* a collection of things that have been combined; an assemblage of separate parts or qualities
58. take ad_____ge of his weak points *n.* a condition or circumstance that puts one in a favorable or superior position; a beneficial feature or asset that someone or something has
59. degree in ele_____al engineering *adj.* relating to electricity
60. an energy eff_____cy *n.* the state or quality of doing something well with no waste of input such as time or money
61. better fuel eff_____cy *n.* the state or quality of doing something well with no waste of input such as time or money

ANSWERS: 50. indestructible, 51. scarce, 52. useless, 53. reaction, 54. inevitably, 55. concept, 56. expend, 57. combination, 58. advantage, 59. electrical, 60. efficiency, 61. efficiency

62. mo____le behavior *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
63. re____e the cardboard boxes *v.* to sort and collect things to process them and produce valuable materials that can be used again
64. loading d__k *n.* a structure or platform that extends from the shoreline into a body of water, used for loading and unloading ships or boats; an enclosed area of water used as a basin for shipping or pleasure boats; a place where a ship can be repaired or maintained
65. t__s the bottle into a trash can *v.* to throw something carelessly with a light motion
66. capital-sc____e country *adj.* not abundant or plentiful, and therefore not easy to find or obtain
67. al____ne water *adj.* having a pH greater than 7, meaning it is basic rather than acidic; having properties or characteristics similar to an alkali
68. m__t down gold *v.* to turn from something solid into something soft or liquid as a result of heating
69. im____e thoughts *adj.* mixed with other substances or foreign matter; (of persons or behaviors) immoral or obscene, especially in sexual matters
70. li____m mining *n.* a soft, silvery-white metal that is highly reactive and used in batteries, alloy production, and medications for bipolar disorder

ANSWERS: 62. molecule, 63. recycle, 64. dock, 65. toss, 66. scarce, 67. alkaline, 68. melt, 69. impure, 70. lithium

71. el_____fy the audience *v.* to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
72. ev___e over the past decade *v.* to develop gradually, or to cause the development of something or someone gradually
73. ba_____y charging *n.* a device that is placed inside a car, gadget, equipment, etc. and that provides electrical power to them
74. a geometric pr__f *n.* a fact or piece of information that shows something is true or exists
75. combined ox__e *n.* a chemical compound that contains at least one oxygen atom and one other element
76. 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
77. sodium hy_____de solution *n.* a chemical compound characterized by the presence of one or more hydroxyl groups (-OH), which can either act as a base or be neutralized by an acid to form a salt or water
78. ma_____se nodules *n.* a chemical element with the symbol Mn and atomic number 25, commonly used in steel production and other alloys
79. 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

ANSWERS: 71. electrify, 72. evolve, 73. battery, 74. proof, 75. oxide, 76. structure, 77. hydroxide, 78. manganese, 79. develop

80. bo__t the economy *v.* to improve, raise, or increase something
81. learn new co____ts *n.* an idea or principle associated with something abstract
82. a com_____ed process *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
83. te____al disease *n.* a building or place where buses, trains, or airplanes stop and where passengers or goods can be picked up or dropped off; (adjective) of or situated at the ends of a delivery route
84. man_____re a product *v.* to make goods in large numbers, usually in a factory using machines
85. re____e the trend *v.* to change something's direction, order, position, decision, etc., to the opposite one; (adjective) directed or moving toward the rear
86. re____e milk packaging into new paper *v.* to sort and collect things to process them and produce valuable materials that can be used again
87. an a__d reaction *n.* sour; water-soluble chemicals with a sour flavor; any of a variety of generally liquid compounds capable of reacting with and occasionally dissolving other materials
88. t__s a coin *v.* to throw something carelessly with a light motion
89. a te____al syllable *n.* a building or place where buses, trains, or airplanes stop and where passengers or goods can be picked up or dropped off; (adjective) of or situated at the ends of a delivery route

ANSWERS: 80. boost, 81. concept, 82. complicated, 83. terminal, 84. manufacture, 85. reverse, 86. recycle, 87. acid, 88. toss, 89. terminal

90. 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
91. re__t at a high temperature *v.* to take action in response to something
92. by_____ct of technology *n.* a secondary or incidental product produced in the manufacture or synthesis of something else
93. a dry ba_____y *n.* a device that is placed inside a car, gadget, equipment, etc. and that provides electrical power to them
94. hy_____de catalyst *n.* a chemical compound characterized by the presence of one or more hydroxyl groups (-OH), which can either act as a base or be neutralized by an acid to form a salt or water
95. the cabin pressure fell dra_____lly *adv.* in a very impressive manner
96. res_____ce to insulin *n.* the act of defending oneself from an aggressor or refusing to accept something
97. re__t against his way of thinking *v.* to take action in response to something
98. trigger a re_____on *n.* a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others

ANSWERS: 90. process, 91. react, 92. byproduct, 93. battery, 94. hydroxide, 95. dramatically, 96. resistance, 97. react, 98. reaction

99. in_____te details *adj.* having many different parts and small details that all work together
100. toxic by_____cts *n.* a secondary or incidental product produced in the manufacture or synthesis of something else
101. im___e water *adj.* mixed with other substances or foreign matter; (of persons or behaviors) immoral or obscene, especially in sexual matters
102. de___e a word *v.* to state or explain precisely the nature, scope, or meaning of something
103. key co_____nt *n.* one of several parts that combines with others to form something bigger
104. vi__l for a healthy society *adj.* necessary for the success or continued existence of something
105. pr_____ty call *n.* something that is more important than other things and should be dealt with first
106. epoxy g__e *n.* a sticky substance used for joining things together; a bonding agent made from animal or synthetic materials
107. 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
108. en___e a new employee *v.* to attract and keep someone's attention and interest; to participate in or obtain services of something
109. flow of el_____ons *n.* a tiny particle with the negative electrical charge

ANSWERS: 99. intricate, 100. byproduct, 101. impure, 102. define, 103. component, 104. vital, 105. priority, 106. glue, 107. advantage, 108. engage, 109. electron

110. am____t air pollution *adj.* relating to the immediate surroundings of something; creating a particular atmosphere or mood, often through sound or lighting
111. meet with opp_____on *n.* the act of disagreeing or resisting; the state of strong disagreement
112. small mo_____les *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
113. an ele_____al storm *adj.* relating to electricity
114. re_____e a prisoner *v.* to set free or allow to escape from confinement
115. v__r to the left *v.* to change direction suddenly or sharply; to turn or swerve from one course or direction to another
116. in_____te lacework *adj.* having many different parts and small details that all work together
117. ine_____ly decline with age *adv.* in a manner that cannot be avoided or prevented
118. me_____ic object *adj.* relating to or resembling metal; having a shiny, silvery, or reflective quality; characterized by strength, durability, or toughness
119. st_____nt measures *adj.* strict, severe, or demanding; requiring close attention to rules or regulations; extreme or excessive in some way
120. bo__t flexibility *v.* to improve, raise, or increase something
121. a bu__h of trees *n.* a grouping of several similar things which are growing or fastened together

ANSWERS: 110. ambient, 111. opposition, 112. molecule, 113. electrical, 114. release, 115. veer, 116. intricate, 117. inevitably, 118. metallic, 119. stringent, 120. boost, 121. bunch

122. m__t the ice *v.* to turn from something solid into something soft or liquid as a result of heating
123. res_____ce movement *n.* the act of defending oneself from an aggressor or refusing to accept something
124. co_____t base 10 to base 16 *v.* to have a talk with someone; (adjective) reversed in order, relation, or action
125. me_____ic taste *adj.* relating to or resembling metal; having a shiny, silvery, or reflective quality; characterized by strength, durability, or toughness
126. chaotic env_____nt *n.* the natural world such as air, water, and land in which humans, animals, and plants live
127. the_____al physicist *adj.* relating to the concepts and principles upon which a particular topic is founded, rather than practice and experience
128. in_____al organs *adj.* of or relating to the inside of something
129. bring my la____p *n.* a portable computer that is small enough to be carried around easily and used on your lap
130. co_____ve coal resources *v.* to protect something, especially the natural environment or culture, from change, damage, or destruction
131. become increasingly com_____ed *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze

ANSWERS: 122. melt, 123. resistance, 124. convert, 125. metallic, 126. environment, 127. theoretical, 128. internal, 129. laptop, 130. conserve, 131. complicated

132. ci____t breaker *n.* (in electrical engineering) an electrical device that provides a path for electrical current to flow; a journey or route around a particular place or area
133. low rec_____ity problem *n.* the degree to which a material or product can be reused or repurposed after it has served its original function, without requiring significant modifications or environmental harm
134. 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
135. hyd_____on molecules in crude oil *n.* an organic compound consisting entirely of hydrogen and carbon
136. da___e assessment *v.* to harm or cause injury to something or someone, often resulting in decreased value or functionality; to impair or negatively affect something, such as a reputation or relationship; (noun) harm or injury that is caused to a person, thing, or entity
137. or____y and fair market *adj.* clean or organized in a neat, careful and logical way
138. the in____al economy *adj.* of or relating to the inside of something
139. v__r toward danger *v.* to change direction suddenly or sharply; to turn or swerve from one course or direction to another

ANSWERS: 132. circuit, 133. recyclability, 134. develop, 135. hydrocarbon, 136. damage, 137. orderly, 138. internal, 139. veer

140. spare co_____nts for cars *n.* one of several parts that combines with others to form something bigger
141. severe cr____c *n.* someone who expresses opinions about the quality of books, music, etc.
142. ad_____on of vectors *n.* the act or process of adding something to something else; the process of adding numbers
143. am_____t temperature *adj.* relating to the immediate surroundings of something; creating a particular atmosphere or mood, often through sound or lighting
144. ind_____al alcohol *adj.* of or relating to or resulting from industry
145. re_____e CO2 into the air *v.* to set free or allow to escape from confinement
146. beginning of the ind_____al revolution *adj.* of or relating to or resulting from industry
147. rec_____ity rate *n.* the degree to which a material or product can be reused or repurposed after it has served its original function, without requiring significant modifications or environmental harm
148. a private ind_____al *n.* a single person or thing, as distinct from a group
149. a company reg_____on *n.* an official rule made and maintained by a government or some other authority; the act of controlling or directing something according to a rule
150. good source of essential amino a__ds *n.* sour; water-soluble chemicals with a sour flavor; any of a variety of generally liquid compounds capable of reacting with and occasionally dissolving other materials

ANSWERS: 140. component, 141. critic, 142. addition, 143. ambient, 144. industrial, 145. release, 146. industrial, 147. recyclability, 148. individual, 149. regulation, 150. acid

151. at___c bomb *adj.* of or relating to atom (= the smallest component of an element)
152. good source of z__c *n.* a metallic element that is found in small amounts in the earth's crust and is used in the manufacture of brass and alloys, and is required to maintain human's health
153. have a ne____ve effect *adj.* having the quality of something bad or harmful; expressing refusal
154. ind_____ble object *adj.* impossible to destroy or damage beyond repair
155. tec_____cal policy *adj.* based on scientific and industrial progress
156. al_____ne food *adj.* having a pH greater than 7, meaning it is basic rather than acidic; having properties or characteristics similar to an alkali
157. hyd_____on production *n.* an organic compound consisting entirely of hydrogen and carbon
158. pr_____ty seating for elderly *n.* something that is more important than other things and should be dealt with first
159. federal ci_____t courts *n.* (in electrical engineering) an electrical device that provides a path for electrical current to flow; a journey or route around a particular place or area
160. chemical ad_____on *n.* the act or process of adding something to something else; the process of adding numbers

ANSWERS: 151. atomic, 152. zinc, 153. negative, 154. indestructible, 155. technological, 156. alkaline, 157. hydrocarbon, 158. priority, 159. circuit, 160. addition

161. an endless st___m of cars *n.* a small, narrow river; a continuous flow of something, such as liquid, gas, people, vehicles, etc.
162. gr_____te mine *n.* a soft, black, lustrous form of carbon that is conductive and used as a lubricant and in pencils and electrodes in electrical devices
163. an in_____l letter *adj.* of or happening at the beginning; (noun) the first letter of a word, especially a person's name
164. a civil en_____er *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
165. de___e my position *v.* to state or explain precisely the nature, scope, or meaning of something
166. toxic ch_____als *adj.* relating to or connected with chemistry;
167. exposure to to__c chemicals *adj.* of or relating to or caused by a poison; poisonous
168. unf_____ely caught in a shower *adv.* by bad luck; unluckily
169. li_____m carbonate *n.* a soft, silvery-white metal that is highly reactive and used in batteries, alloy production, and medications for bipolar disorder
170. ev___e *v.* to develop gradually, or to cause the development of something or someone gradually
171. at___c nucleus *adj.* of or relating to atom (= the smallest component of an element)

ANSWERS: 161. stream, 162. graphite, 163. initial, 164. engineer, 165. define, 166. chemical, 167. toxic, 168. unfortunately, 169. lithium, 170. evolve, 171. atomic

172. art cr___c *n.* someone who expresses opinions about the quality of books, music, etc.
173. 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
174. the st___m of time *n.* a small, narrow river; a continuous flow of something, such as liquid, gas, people, vehicles, etc.
175. a lily b__b *n.* a rounded underground storage organ of some plants from which the plant grows; the rounded part of a cylindrical structure; electric lamp consisting of a glass ball
176. beam of el_____ons *n.* a tiny particle with the negative electrical charge
177. tec_____cal advancement *adj.* based on scientific and industrial progress
178. documentary pr__f *n.* a fact or piece of information that shows something is true or exists
179. or_____y manner *adj.* clean or organized in a neat, careful and logical way
180. l__k data *v.* to allow liquid or gas to get in or out from a hole or crack in a pipe or container
181. even more unf_____ely *adv.* by bad luck; unluckily
182. i_n channel *n.* an atom or molecule that has a positive or negative electrical charge caused by its losing or gained one or more electrons

ANSWERS: 172. critic, 173. structure, 174. stream, 175. bulb, 176. electron, 177. technological, 178. proof, 179. orderly, 180. leak, 181. unfortunately, 182. ion

183. st_____nt requirements *adj.* strict, severe, or demanding; requiring close attention to rules or regulations; extreme or excessive in some way
184. silver ox__e *n.* a chemical compound that contains at least one oxygen atom and one other element
185. ty_____l leader *adj.* having the usual characteristics or traits of a specific group of things
186. da___e a relationship *v.* to harm or cause injury to something or someone, often resulting in decreased value or functionality; to impair or negatively affect something, such as a reputation or relationship; (noun) harm or injury that is caused to a person, thing, or entity
187. small ga_____ne engine *n.* a volatile flammable liquid obtained from petroleum, used mainly as a fuel in car engines, etc.
188. wet-b__b thermometer *n.* a rounded underground storage organ of some plants from which the plant grows; the rounded part of a cylindrical structure; electric lamp consisting of a glass ball

ANSWERS: 183. stringent, 184. oxide, 185. typical, 186. damage, 187. gasoline, 188. bulb

Session 3: Fill in the Blanks

1. The _____ in the brake pads helps to reduce friction during braking.
n. a soft, black, lustrous form of carbon that is conductive and used as a lubricant and in pencils and electrodes in electrical devices

2. There are five distinct _____ at five unique wavelengths.
n. the act of production or sending out gas, heat, light, etc.

3. The _____ will repair my telephone tomorrow morning.
n. a person whose job is designing, building, or maintaining something such as machines, structures, or software

4. The _____ at the airport is where passengers catch their flights.
n. a building or place where buses, trains, or airplanes stop and where passengers or goods can be picked up or dropped off; (adjective) of or situated at the ends of a delivery route

5. The light _____ has burned out.
n. a rounded underground storage organ of some plants from which the plant grows; the rounded part of a cylindrical structure; electric lamp consisting of a glass ball

6. The _____ party strongly disagreed with the government's proposed legislation.
n. the act of disagreeing or resisting; the state of strong disagreement

7. The movie has received almost universally _____ criticism.
adj. having the quality of something bad or harmful; expressing refusal

ANSWERS: 1. graphite, 2. emissions, 3. engineer, 4. terminal, 5. bulb, 6. opposition, 7. negative

8. Billionaires tend to _____ private funds on a public undertaking.
v. to use or spend time, money, energy, etc.
9. This artwork is _____ of her work.
adj. having the usual characteristics or traits of a specific group of things
10. Because of his excellent performance, he will _____ be promoted.
adv. in a manner that cannot be avoided or prevented
11. The blood's red coloring comes from iron _____.
n. a chemical compound that contains at least one oxygen atom and one other element
12. Life expectancy has grown _____ this century.
adv. in a very impressive manner
13. In some religions, pork is deemed _____.
adj. mixed with other substances or foreign matter; (of persons or behaviors) immoral or obscene, especially in sexual matters
14. Our company must continue to strive for greater _____.
n. the state or quality of doing something well with no waste of input such as time or money
15. The outermost _____ shell determines the chemical properties of an atom.
n. a tiny particle with the negative electrical charge
16. The _____ lighting in the restaurant created a cozy and romantic atmosphere.
adj. relating to the immediate surroundings of something; creating a particular atmosphere or mood, often through sound or lighting

ANSWERS: 8. expend, 9. typical, 10. inevitably, 11. oxide, 12. dramatically, 13. impure, 14. efficiency, 15. electron, 16. ambient

17. _____ dioxide is used as a catalyst in some chemical reactions.
- n.* a chemical element with the symbol Mn and atomic number 25, commonly used in steel production and other alloys
18. During pregnancy, the stomach generates less _____ than usual.
- n.* sour; water-soluble chemicals with a sour flavor; any of a variety of generally liquid compounds capable of reacting with and occasionally dissolving other materials
19. 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
20. He _____ serious accounting irregularities that only people in the company's executive could know.
- v.* to allow liquid or gas to get in or out from a hole or crack in a pipe or container
21. Eyeless fish _____ in dark caves.
- v.* to develop gradually, or to cause the development of something or someone gradually
22. An _____ environment is necessary for certain types of plants to grow.
- adj.* having a pH greater than 7, meaning it is basic rather than acidic; having properties or characteristics similar to an alkali
23. _____ batteries are commonly used in laptops, smartphones, and electric vehicles.
- n.* a soft, silvery-white metal that is highly reactive and used in batteries, alloy production, and medications for bipolar disorder

ANSWERS: 17. Manganese, 18. acid, 19. process, 20. leaked, 21. evolved, 22. alkaline, 23. Lithium-ion

24. The old, rusty tools were now _____ and had to be thrown away.
adj. not serving any useful purpose; having no practical result
25. Perseverance and optimism are _____ to success.
adj. necessary for the success or continued existence of something
26. The _____ of electronic devices is a significant challenge due to the complexity of their components.
n. the degree to which a material or product can be reused or repurposed after it has served its original function, without requiring significant modifications or environmental harm
27. _____ design has become more focused on human nature aspect than ever before.
adj. of or relating to or resulting from industry
28. The increased concentrat____ of hydrogen ions in an aqueous solution makes it more acidic.
n. an atom or molecule that has a positive or negative electrical charge caused by its losing or gained one or more electrons
29. The _____ approved by Congress was perfunctorily implemented.
n. an official rule made and maintained by a government or some other authority; the act of controlling or directing something according to a rule
30. Actuators convert _____ pulses into motion.
adj. relating to electricity
31. Her _____ is to be a mother.
n. something that is more important than other things and should be dealt with first

ANSWERS: 24. useless, 25. vital, 26. recyclability, 27. Industrial, 28. ion, 29. regulation, 30. electrical, 31. priority

32. We strive not to _____ the environment when demolishing petroleum plants.
- v. to make something impure, unclean, or poisonous by contact or mixture
33. The product developed through years of research continues to _____ the market.
- v. to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
34. Fresh water is becoming increasingly _____ in many parts of the world.
- adj. not abundant or plentiful, and therefore not easy to find or obtain
35. Many multinational companies are _____ in the reconstruction of that country.
- v. to attract and keep someone's attention and interest; to participate in or obtain services of something
36. 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
37. We largely _____ the circuit board of cell phones because they contain a lot of valuable metals.
- v. to sort and collect things to process them and produce valuable materials that can be used again
38. The _____ to the safe was a secret.
- n. a collection of things that have been combined; an assemblage of separate parts or qualities

ANSWERS: 32. contaminate, 33. electrify, 34. scarce, 35. engaged, 36. develop, 37. recycle, 38. combination

39. An intelligent battery has a voltage monitoring _____.
- n.* (in electrical engineering) an electrical device that provides a path for electrical current to flow; a journey or route around a particular place or area
40. It would be best if you _____ out all those old magazines.
- v.* to throw something carelessly with a light motion
41. The ship pulled to the _____ and we disembarked to start our adventure.
- n.* a structure or platform that extends from the shoreline into a body of water, used for loading and unloading ships or boats; an enclosed area of water used as a basin for shipping or pleasure boats; a place where a ship can be repaired or maintained
42. The elections were handled in a timely and _____ manner.
- adj.* clean or organized in a neat, careful and logical way
43. The animal rights group worked to _____ the dolphins back into the wild.
- v.* to set free or allow to escape from confinement
44. The engine did not start because the _____ was flat.
- n.* a device that is placed inside a car, gadget, equipment, etc. and that provides electrical power to them
45. There was a chemical _____ of the lime with the groundwater.
- n.* a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others
46. Aluminum _____ is used in the treatment of stomach ulcers and heartburn.
- n.* a chemical compound characterized by the presence of one or more hydroxyl groups (-OH), which can either act as a base or be neutralized by an acid to form a salt or water

ANSWERS: 39. circuit, 40. tossed, 41. dock, 42. orderly, 43. release, 44. battery, 45. reaction, 46. hydroxide

47. 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

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

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

49. The _____ of the energy production process is a large amount of carbon dioxide emissions.

n. a secondary or incidental product produced in the manufacture or synthesis of something else

50. The firm has grown into a large _____ manufacturing.

adj. relating to or connected with chemistry;

51. The politician managed to deal with that _____ issue.

adj. having many different parts and small details that all work together

52. The restaurant _____ a ban on smoking.

v. to change something's direction, order, position, decision, etc., to the opposite one; (adjective) directed or moving toward the rear

53. The carpenter applied _____ to the cabinet joints before nailing them together.

n. a sticky substance used for joining things together; a bonding agent made from animal or synthetic materials

54. Carbon has an _____ mass of 12.

adj. of or relating to atom (= the smallest component of an element)

ANSWERS: 47. individual, 48. manufactured, 49. byproduct, 50. chemical, 51. intricate, 52. reversed, 53. glue, 54. atomic

55. He did _____ pen-and-ink drawings in just a few days.

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

56. The vault was advertised as _____ but was eventually broken into.

adj. impossible to destroy or damage beyond repair

57. The jewelry shop featured a wide array of _____ accessories made of gold, silver, and copper.

adj. relating to or resembling metal; having a shiny, silvery, or reflective quality; characterized by strength, durability, or toughness

58. 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

59. _____ advances have disrupted many industries.

adj. based on scientific and industrial progress

60. _____ supplements are often recommended for people who are deficient in this mineral.

n. a metallic element that is found in small amounts in the earth's crust and is used in the manufacture of brass and alloys, and is required to maintain human's health

61. She's a _____ pet owner who ensures her dog gets enough exercise and a healthy diet.

adj. answerable or accountable for something within one's power, control, or management

ANSWERS: 55. complicated, 56. indestructible, 57. metallic, 58. advantages, 59. Technological, 60. Zinc, 61. responsible

62. The treatments were done but, _____ were unsuccessful.
adv. by bad luck; unluckily
63. _____ is better than argument.
n. a fact or piece of information that shows something is true or exists
64. 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
65. The sponge takes up the _____ well.
n. a substance, such as water or oil that flows freely and is neither a solid nor a gas
66. 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
67. They collected a _____ specimen for urinalysis.
n. a liquid by-product of metabolism in humans and in many other animals that are released from the body when you urinate
68. The prime minister canceled visits to other countries to resolve _____ disputes.
adj. of or relating to the inside of something
69. 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

ANSWERS: 62. unfortunately, 63. Proof, 64. structure, 65. liquid, 66. component, 67. urine, 68. internal, 69. environment

70. They took the _____ step toward reconciliation.

adj. of or happening at the beginning; (noun) the first letter of a word, especially a person's name

71. The car _____ off the road and crashed into a tree.

v. to change direction suddenly or sharply; to turn or swerve from one course or direction to another

72. I am _____ opposed to his idea because of morality.

adv. without restriction or limitation; completely or utterly

73. To advance this discussion, we must _____ "success" rigorously.

v. to state or explain precisely the nature, scope, or meaning of something

74. 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

75. Burning _____ releases water vapor and carbon dioxide.

n. an organic compound consisting entirely of hydrogen and carbon

76. Absolute zero is the lowest _____ temperature.

adj. relating to the concepts and principles upon which a particular topic is founded, rather than practice and experience

77. Her resistance _____ under his persuasion.

v. to turn from something solid into something soft or liquid as a result of heating

78. The school has a _____ attendance policy that allows for no more than three absences per semester.

adj. strict, severe, or demanding; requiring close attention to rules or regulations; extreme or excessive in some way

ANSWERS: 70. initial, 71. veered, 72. absolutely, 73. define, 74. resistance, 75. hydrocarbons, 76. theoretical, 77. melted, 78. stringent

79. The factory's _____ fumes polluted the air and affected the health of the nearby residents.
- n.* the system in a vehicle that removes waste gases from the engine; (verb) to make someone completely tired
80. Luxury cars often require high-octane _____ as fuel.
- n.* a volatile flammable liquid obtained from petroleum, used mainly as a fuel in car engines, etc.
81. Advocates for legal reform hear less harsh words from their _____.
- n.* someone who expresses opinions about the quality of books, music, etc.
82. One bad apple spoils the whole _____.
- n.* a grouping of several similar things which are growing or fastened together
83. I want to _____ my sadness into strength.
- v.* to have a talk with someone; (adjective) reversed in order, relation, or action
84. This chemical compound is a thousand-fold more _____.
- adj.* of or relating to or caused by a poison; poisonous
85. In _____ private corporations provide healthcare services.
- n.* the act or process of adding something to something else; the process of adding numbers
86. 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

ANSWERS: 79. exhaust, 80. gasoline, 81. critics, 82. bunch, 83. convert, 84. toxic, 85. addition, 86. molecule

87. Children must be taught to _____ our natural environment.
- v. to protect something, especially the natural environment or culture, from change, damage, or destruction
88. During the surgery, the doctor had to be extremely cautious not to _____ a blood vessel.
- v. to harm or cause injury to something or someone, often resulting in decreased value or functionality; to impair or negatively affect something, such as a reputation or relationship; (noun) harm or injury that is caused to a person, thing, or entity
89. He needed to _____ his phone before the meeting.
- v. to restore the energy or power of something by supplying it with more energy or power; to refresh or renew oneself by rest or sleep
90. Jet _____ are the common name for air currents that form high in the atmosphere.
- n. a small, narrow river; a continuous flow of something, such as liquid, gas, people, vehicles, etc.
91. How did he _____ to your idea?
- v. to take action in response to something
92. I need to finish this report by tonight, so I'll be working on my _____ all day.
- n. a portable computer that is small enough to be carried around easily and used on your lap
93. The new service helped _____ net income by 10%.
- v. to improve, raise, or increase something

ANSWERS: 87. conserve, 88. damage, 89. recharge, 90. streams, 91. react, 92. laptop, 93. boost

94. One such rapidly growing _____ is quantum cryptography.

n. an idea or principle associated with something abstract

ANSWERS: 94. concept