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Vocabulary Builder Reference from...

Thomas Thwaites: How I built a toaster -- from scratch | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

surround

v. to be all around something or somebody

synonym: encircle, encompass, envelop

(1) **surround** a town, (2) a stone wall **surrounds** the palace
On three sides, mountains **surround** the settlement.

sludge

n. a thick, wet mixture of liquid and solid matter, typically one that is unpleasant or harmful

synonym: muck, ooze, mire

(1) **sludge** treatment, (2) **sludge** removal

The **sludge** at the bottom of the river was a toxic hazard for marine life.

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.

monitor

v. to observe, check, and track the progress or quality of something over a period of time

synonym: proctor, check, observe

(1) **monitor** an exam, (2) **monitor** the data carefully

They used a special receiver to **monitor** police radio

channels.

annoying

adj. making someone feel slightly angry

synonym: aggravating, bothersome, irksome

(1) **annoying** banner ad, (2) **annoying** habit

The phone call is an **annoying** interruption.

magical

adj. produced by or containing supernatural powers

synonym: enchanting, occult, supernatural

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

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

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.

toast

n. slices of bread browned on both sides that have been put near a high heat; a drink in honor of or to the health of a person or even

(1) drink a **toast**, (2) slice of **toast**

We made a **toast** with everyone.

inspire

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

synonym: boost, encourage, enlighten

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

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

quotation

n. a group of words taken from a text or speech and repeated by someone other than the original author or speaker

synonym : excerpt, passage, quote

(1) double **quotation** marks, (2) take a **quotation**

He included a **quotation** from the book in his essay.

hitchhike

v. to obtain a ride in a passing vehicle by signaling to the driver or waving one's thumb; to travel by getting a free ride in someone else's vehicle

synonym : thumb a ride, bum a ride

(1) **hitchhike** a ride, (2) **hitchhike** across the country

She had to **hitchhike** to the nearest gas station when her car broke down.

galaxy

n. an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity

synonym : star cluster, nebula, star system

(1) elliptic **galaxy**, (2) a **galaxy** of famous actors

The Milky Way **galaxy** has numerous water-bearing planets.

hero

n. a person who is admired or idealized for courage, outstanding achievements, or noble qualities; a character in literature or history who is central to the plot and who exhibits heroic qualities

synonym : champion, protagonist, savior

(1) local **hero**, (2) unsung **hero**

The soldier who sacrificed his life for his country is considered a national **hero**.

planet

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

synonym : earth, world, globe

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

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

populate

v. to inhabit or occupy a particular area, region, or environment with a certain number or type of people, animals, or plants; to fill out or complete a form, document, or database with relevant information

synonym: inhabit, occupy, dwell

(1) **populate** the countryside, (2) **populate** the spreadsheet
Deer, squirrels, and birds primarily **populate** the forest.

technological

adj. based on scientific and industrial progress

synonym: specialized, technical

(1) **technological** advancement, (2) **technological** policy
Technological advances have disrupted many industries.

primitive

adj. of or relating to an early stage of society with no industry or technological development; simple, naive, or old-fashioned in style

synonym: elementary, naive, rudimentary

(1) **primitive** society, (2) artifact of a **primitive** humankind
The industry in this country is still **primitive**.

assume

v. to think or accept something to be true without having proof of it; to take or begin to have power; to begin to exhibit a specific quality or appearance

synonym: guess, presume, suppose

(1) **assume** a lousy attitude to his boss, (2) **assume** an important role

The following example **assumes** that the capacity of each battery is the same.

villager

n. a person who lives in a village or small rural community; a person who is part of a close-knit and traditional community

synonym: resident, inhabitant, countryperson

(1) **villager** community, (2) local **villager**

The rural **villagers** were saddened by the destruction of their homes in the natural disaster.

emperor

n. the male ruler of an empire

synonym: ruler, king, dictator

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

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

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.

command

n. authority, control, or mastery over something, often referring to military or leadership contexts; a directive, order, or instruction; expertise or confidence in a specific area; (verb) to give an authoritative order or instruction, or to be in charge or control of something

synonym: control, authority, leadership

(1) **command** and control, (2) **command** a battery

The general gave a **command** to his troops to prepare for battle.

element

n. a fundamental or essential part of something

synonym: component, feature, essence

(1) new design **elements**, (2) nonmetallic **elements**

Natural selection is an essential **element** in Darwin's theory of evolution.

barely

adv. just enough; hardly; with great difficulty or effort

synonym: scarcely, hardly, only just

(1) **barely** noticeable, (2) **barely** finished

I **barely** made it to the meeting on time, rushing from another appointment across town.

Wikipedia

n. an online encyclopedia that allows users to contribute and edit articles collaboratively; a vast and frequently updated repository of information on a wide range of topics

synonym : online encyclopedia, webpedia

(1) **Wikipedia** entry, (2) **Wikipedia** article

Not all teachers accept citing **Wikipedia** as a valid source for academic papers.

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.

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.

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.

dismay

n. a feeling of discouragement, distress, or anxiety caused by something unexpected or unwelcome; a sudden loss of courage or confidence

synonym : distress, discouragement, consternation

(1) flop down in **dismay**, (2) feel **dismay**

The employees expressed their **dismay** at the sudden announcement of massive layoffs.

discovery

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

synonym : finding, uncovering, detection

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

century

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

pound

n. the standard unit of money in the UK; the standard unit of weight equal to 16 ounces

(1) three-fourths of a **pound**, (2) thousands of **pounds**

The car's front bumper cost fifteen hundred **pounds**.

steel

n. a strong metal alloy made up of iron with typically a few tenths of a percent of carbon used for making things that need a strong structure

synonym : iron

(1) magnetic **steel**, (2) **steel** beam

This bridge is the third largest **steel** bridge in the world.

copper

n. a chemical element that is a soft, malleable, and ductile metal with very high thermal and electrical conductivity

(1) **copper** alloy, (2) **copper** belt

He made the old **copper** coins shine.

nickel

n. a silver-white metallic element with the symbol Ni, used in many alloys and as a coin; a United States coin worth one-twentieth of a dollar

synonym : metal, coin, alloy

(1) **nickel** ore, (2) **nickel** plate

The **nickel** in my pocket jingled as I walked.

advance

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

synonym : progress, boost, come along

(1) **advance** the technology, (2) **advance** a cooperative relationship

Scientific knowledge will **advance** significantly with the power of AI.

mineral

n. a solid inorganic substance occurring in nature having a definite chemical composition

(1) vitamin and **minerals**, (2) **mineral** rights

The robust economy of the country is based on its **mineral** resources.

extract

n. a short passage taken from a book, piece of music, etc.; a substance obtained from something through a specific process; (verb) to obtain from something or to remove something by effort or force

synonym: excerpt, quote, distillation

(1) a brief **extract** from the book, (2) botanical **extract**

Anesthetize the gum before **extracting** the teeth.

royal

adj. relating to or belonging to the king or queen or a member of their family

synonym: imperial, noble, aristocratic

(1) a **royal** palace, (2) prince **royal**

She is willing to give up her position in the **royal** family to marry him.

vague

adj. not clearly expressed or understood

synonym: ambiguous, imprecise, dim

(1) **vague** idea, (2) make a **vague** answer

The **vague** rumor turned out to be false.

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.

emerge

v. to move out of or away from something and become visible

synonym: arise, occur, appear

(1) **emerge** as a butterfly, (2) **emerge** from poverty

During colonial eras, new migratory patterns **emerged**.

- ray** *n.* a narrow line of light, heat, or another form of energy
synonym : beam, light, glimmer
(1) opaque to X- **rays**, (2) effect of cosmic **rays**
Gamma **rays** penetrate body tissues and cause cell damage.
- poster** *n.* a large sheet or picture that is placed either on a public space to promote or announce something or on a wall to decorate it
synonym : banner, billboard, sign
(1) eye-catching **posters**, (2) a wanted **poster**
We noticed a **poster** advertising a bargain.
- nag** *v.* to annoy or irritate someone persistently with repeated complaints, requests, or criticism; (noun) an old or over-worked horse
synonym : hassle, bother, badger
(1) **nag** about the minor thing, (2) **nag** political leaders
She couldn't stop **nagging** her husband to take out the trash.
- crease** *n.* a line or mark made by folding or wrinkling a surface or material; a slight ridge or fold in fabric or paper caused by pressing or folding
synonym : fold, wrinkle, ridge
(1) **crease** in fabric, (2) deep **crease**
The shirt had a noticeable **crease** along the sleeve from being folded.
- limestone** *n.* a sedimentary rock that is composed mainly of calcium carbonate, which is the mineral calcite
synonym : calcareous rock, chalk
(1) sheer **limestone** cliffs, (2) **limestone** pavement
The Great Pyramid of Giza was built using blocks of **limestone**.
- creature** *n.* a living being, especially an animal
synonym : being, animal, organism
(1) **creature** of habit, (2) artificial **creature**

The deep sea **creature** was unlike anything the scientists had ever seen before.

atmosphere

n. the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work

synonym: air, ambiance, circumstances

(1) carbon dioxide in the **atmosphere**, (2) a convivial **atmosphere**

The spaceship began to burn up as it approached the Earth's **atmosphere**.

geology

n. a science that deals with the history of the earth as recorded in rocks

synonym: earth science

(1) bureau of **geology**, (2) local **geology**

He was a visiting **geology** professor at the University of Tokyo.

terrific

adj. causing terror or fear; extremely great or intense; very good or excellent

synonym: fantastic, great, excellent

(1) absolutely **terrific**, (2) at a **terrific** speed

The view from the top of the mountain was **terrific**, with sweeping vistas of the valley below.

decoration

n. the act of adding something that is intended to make something more attractive; an award or honor that is given to someone in recognition of their achievements

synonym: adornment, ornament, embellishment

(1) colorful **decorations**, (2) chocolate **decorations** for cakes

The room was filled with beautiful **decorations** for the wedding reception.

miner

n. a person who works in a mine (= excavation in the Earth from which ores and minerals are extracted), especially one who extracts coal, minerals, or precious metals from

the Earth

synonym: digger, excavator, miner

(1) **miner** strike, (2) **miner** industry

The coal **miner** worked tirelessly to extract valuable minerals from deep underground.

attraction

n. a sense of like someone, particularly sexually; something that causes individuals to desire to go to a specific area or do a specific activity

synonym: allure, appeal, interest

(1) the big **attraction** of the event, (2) popular tourist **attraction**

She felt an instant **attraction** toward him.

compete

v. to strive to achieve more success than someone or something

synonym: contend, contest, vie

(1) **compete** against a friend, (2) **compete** fiercely

You must **compete** with others to obtain this position.

operate

v. to work in a particular way; to supervise something

synonym: work, use, employ

(1) **operate** 24 hours a day, (2) manually **operate** a machine

This machine is too difficult to **operate** for me.

ore

n. a naturally occurring mineral or rock from which a valuable substance, typically a metal, can be extracted through mining or other extraction methods

synonym: mineral deposit, rock

(1) gold **ore**, (2) copper **ore**

The mine produces high-quality iron **ore**.

drag

v. to pull or haul with force

synonym: haul, pull, draw

(1) **drag** a chair over, (2) **drag** a team down

He **dragged** the heavy suitcase behind him as he walked.

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.

undergraduate

n. a student who is studying for their first degree at a university or other higher education institution

synonym: college student, freshman

(1) engineering **undergraduate**, (2) **undergraduate** course

The class was composed of both **undergraduate** and graduate students.

metallurgy

n. a branch of materials science and engineering that stands at metals' physical and chemical properties, their compounds with other metals, and their mixtures, called alloys.

(1) nickel **metallurgy**, (2) welding **metallurgy**

He taught engineering and **metallurgy** classes.

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.

woodcut

n. a print made by cutting a design into a block of wood and then inking the surface and pressing it onto paper

synonym: print, engraving, relief

(1) **woodcut** printing, (2) **woodcut** block

The museum had an exhibition of famous artists' **woodcuts**.

bellows

n. a device consisting of a bag or chamber with flexible sides that is expanded and contracted to draw in air through a valve and then force it out through a tube; a device used to blow air into a fire to make it burn more intensely

synonym: blower, puffer, blaster

(1) **bellows** pump, (2) blow a **bellows**

The blacksmith's apprentice operated the **bellows** to maintain the forge's heat.

patent

n. a legal document that grants an inventor exclusive rights to their invention for a certain period of time; the invention or process for which a patent has been granted

synonym: copyright, trademark, license

(1) **patent** application, (2) **patent** law

The company has filed for a **patent** to protect its new invention.

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.

furnace

n. an enclosed chamber for heating metal or glass to very high temperatures

synonym: incinerator

(1) electrical **furnace**, (2) gas-fired **furnace**

In the **furnace**, the metal gleamed with radiance.

microwave

n. a form of electromagnetic radiation with wavelengths ranging from about one millimeter to one meter and frequencies between 300 MHz (0.3 GHz) and 300 GHz; an electric oven that cooks food by exposing it to high-frequency electromagnetic radiation, which causes the food molecules to vibrate and heat up quickly

synonym : oven, waveguide, radar range

(1) **microwave** radiation, (2) **microwave** popcorn

I heated my leftover food in the **microwave** oven, which tasted just as good as freshly cooked.

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.

retire

v. to withdraw from one's position or occupation, especially because of age

synonym : relinquish, step down, withdraw

(1) **retire** voluntarily, (2) **retire** after four terms

After working for the company for 30 years, she decided to **retire** from her job.

acidic

adj. having a pH lower than 7; having characteristics of an acid, such as tasting sour or corroding metal

synonym : sour, tart, acrid

(1) **acidic** solution, (2) **acidic** taste

The soil in this region is too **acidic** for most crops to grow well.

dissolve

v. to be or cause to be absorbed by a liquid to form a part of the solution; to close down or dismiss

synonym : disband, disappear, liquefy

(1) **dissolve** the sugar, (2) officially **dissolved** the marriage

The political party **dissolved** after much internal fighting.

bacteria

n. single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the

air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease

synonym : microorganism, microbe

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

Bacteria prevalent in hospitals are often resistant to antibiotics.

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**.

isle

n. a small island, especially one in the sea

synonym : island, atoll, cay

(1) **isle** of paradise, (2) tiny **isle**

I love to spend my vacations on a beautiful **isle** with pristine beaches.

cast

v. to cause light or shadow to appear on a surface; to assign or choose someone such as an actor or representative, especially by selection process

synonym : throw, project, select

(1) **cast** a ballot, (2) **cast** a charming eye

This accident **cast** a dark shadow over their lives.

metal

n. a solid material that is typically hard, shiny, malleable, fusible, and ductile, with good electrical and thermal conductivity, and often used as a structural material, a conductor of heat or electricity, or for decorative purposes

synonym : alloy, metalloid

(1) **metal** fabrication, (2) precious **metal**

The construction worker used a **metal** saw to cut through the stubborn sheet metal.

insulate

v. to protect something by interposing material that prevents heat, noise, electricity, etc.

synonym : isolate, protect, seclude

(1) **insulate** the room from sound, (2) **insulate** electricity
We had our bedroom **insulated** before winter came.

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.

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.

feat

n. a notable or impressive achievement, especially one
that requires great skill or bravery

synonym : achievement, accomplishment, exploit

(1) intellectual **feat**, (2) **feat** accomplishment

It is an incredible **feat** to climb Mount Everest, the highest
mountain in the world.

electrical

adj. relating to electricity

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

Actuators convert **electrical** pulses into motion.

convince

v. to persuade someone or make someone believe that
something is true

synonym : persuade, win over, convert

(1) **convince** her to go with us, (2) **convince** an opponent

I am considering what I should do to **convince** him.

fantastic

adj. extremely good; excellent

synonym : incredible, unbelievable, marvelous

(1) a **fantastic** dress, (2) absolutely **fantastic** event

The new amusement park ride was **fantastic**, with twists, turns, and drops that left riders screaming with excitement.

rig

v. to prepare or set up something in a certain way, typically in a carefully planned or fraudulent manner; to equip with sails or masts

synonym : set up, prepare, arrange

(1) **rig** an election, (2) **rig** a ship with new sails

He **rigged** the game so he could win the prize.

jug

n. a container with a handle and spout used for pouring liquids, typically made of ceramics, glass, or metal;
(verb) to cook something slowly in a covered container

synonym : pitcher, carafe, decanter

(1) ceramic **jug**, (2) **jug** of beer

She filled the **jug** with ice-cold water from the fridge.

obvious

adj. easy to see, discover or understand

synonym : apparent, conspicuous, evident

(1) **obvious** reasons, (2) his conclusion was **obvious**

There are **obvious** differences between the two wine-producing regions.

convinced

adj. completely certain about something; having a strong belief or conviction in a particular religion

synonym : confident, positive, indoctrinated

(1) **convinced** of the idea, (2) **convinced** criminal

The public is **convinced** that the prime minister has committed fraud.

starch

n. a complex carbohydrate found in many plants, including rice, wheat, and potatoes that is an important foodstuff for humans and animals

synonym : carbohydrate, glucose, dextrin

(1) **starch** granules, (2) potato **starch**

When heated, **starch** molecules absorb water and become thick and gooey, making it a useful thickening agent in cooking.

attempt

n. an act or effort of trying to do something, especially something difficult

synonym: endeavor, effort, try

(1) the **attempt** to rescue the hostages, (2) a reckless **attempt**

The third **attempt** was far more successful.

mold

n. a hollow container used to give shape to liquid or soft substance, which then becomes solid in the same shape as the container; a soft, green, or gray growth that forms on stale food or objects exposed to warm, moist air for too long

synonym: cavity, cast, mildew

(1) a casting **mold**, (2) **mold** allergy

Mushrooms and **mold** are fungi.

trunk

n. the main stem or body of a tree which its branches grow

synonym: body, chest, torso

(1) the **trunk** of the tree, (2) the **trunk** of the body

Destructive fungi thrive in moist environments, such as those seen in wounds on the **trunk**.

snail

n. a slow-moving mollusk with a spiral shell that it uses to protect its body

synonym: escargot, slug, whelk

(1) **snail** mail, (2) **snail** pace

The gardener found a **snail** slowly making its way through the lettuce patch.

hydrolyze

v. to break down or decompose a compound or substance by a chemical reaction with water, often resulting in the separation of its components

synonym : dissolve, decompose, break down

(1) **hydrolyze** a chemical compound, (2) **hydrolyze** starch with enzymes

The research team seeks more efficient methods to **hydrolyze** cellulose into its glucose components.

despair

n. the feeling that there is no hope and you cannot do anything to improve a difficult situation

synonym : dismay, anguish, misery

(1) **despair** at the future, (2) untold **despair**

His friend's death drove him to **despair**.

decide

v. to make up someone's mind about something; to come to a conclusion or judgment after considering options

synonym : choose, determine, settle

(1) **decide** a question, (2) **decide** on a course of action

She couldn't **decide** whether to order the pizza or the pasta for dinner.

lateral

adj. relating to or situated on the side; moving or extending sideways; involving or relating to the transfer of information or responsibilities between individuals or departments within an organization

synonym : side, sideways, horizontal

(1) **lateral** communication, (2) **lateral** incisor

The **lateral** movement of the car caused it to skid off the road.

geologist

n. a scientist or specialist who studies geology

(1) planetary **geologist**, (2) marine **geologist**

These issues baffled **geologists** for many years.

christen

v. to give a name to a baby at a Christian ceremony to welcome them into the Christian Church

synonym : baptize, name, initiate

(1) **christen** a child, (2) **christen** the baby at the baptism

The newborn baby was **christened** in a ceremony at the church.

debate

n. a formal discussion or argument of opposing viewpoints, often to persuade others to adopt a specific position; a public discussion, often on an issue of current interest, in which participants offer opinions and differing perspectives

synonym: argument, discussion, dispute

(1) **debate** topic, (2) **debate** competition

The **debate** over climate change continues to be a hot topic in politics.

epoch

n. a particular period of time, usually marked by significant events or developments; a division of geologic time

synonym: era, age, period

(1) **epoch-making** event, (2) post-modern **epoch**

The Industrial Revolution is often considered an **epoch** in human history.

shift

n. a slight transition in position, direction, or trend

synonym: transition, change, modification

(1) Doppler **shift**, (2) major paradigm **shift**

Could you help me **shift** some furniture?

stratum

n. a layer or level of something, usually referring to a layer of rock or soil in the Earth's crust

synonym: layer, level, tier

(1) social **stratum**, (2) **stratum** corneum

The geologist identified a new **stratum** of rock through his research.

suddenly

adv. quickly and unexpectedly

synonym: abruptly, unexpectedly, unawares

(1) **suddenly** attacked by an enemy, (2) die **suddenly**

Who answers **suddenly** knows little.

radioactive

adj. emitting powerful and dangerous energy when the nuclei (= central parts) of atoms are broken up

synonym : dangerous, contaminated, emanating

(1) **radioactive** decay, (2) **radioactive** isotope

The **radioactive** material was carefully stored in a lead-lined container.

nuclear

adj. of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy

synonym : atomic

(1) **nuclear** fusion, (2) use of **nuclear** power

Many countries have now agreed to a treaty banning the use of **nuclear** weapons.

bomb

n. a weapon that explodes and is used to kill or injure people or to cause damage to something

synonym : missile, explosive, ammunition

(1) atomic **bombs**, (2) disarm the **bomb**

The use of cluster **bombs** is strictly prohibited by international law.

extinction

n. the complete disappearance of a species from the earth

synonym : disappearance, eradication, annihilation

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

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

fossil

n. any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock

synonym : relic, remnant, antediluvian

(1) burning of **fossil** fuels, (2) a **fossil** leaf

It was the **fossil** of a dinosaur tooth.

disappear

v. to cease to exist or be visible

synonym : fade, evaporate, vanish

(1) **disappear** without a trace, (2) **disappear** after a week
They watched the train **disappear** into the distance.

synthetic

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

synonym: artificial, manufactured, fabricated

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

Synthetic diamonds play an essential role as machine tool blades.

polymer

n. a substance composed of macromolecules (= large groups of atoms) made from many smaller and simpler molecules

(1) **polymer** fiber, (2) biological **polymer**

We are developing plant-derived **polymers** to reduce environmental impact.

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.

modern

adj. of or belonging to the present time or recent times

synonym: contemporary, stylish, current

(1) **modern** poetry, (2) pre- **modern** agricultural society

Their headquarters are in a **modern** skyscraper.

axion

n. a hypothetical elementary particle that is a constituent of dark matter and has properties similar to those of neutrinos but with a much greater mass

synonym: particle, quantum, fermion

(1) **axion** particle, (2) **axion** mass

The **axion** field is believed to have an impact on the development of the universe.

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.

electronics

n. the branch of physics and technology that deals with the behavior and control of electrons and the use of electronic devices and systems

synonym: technology, gadgets, circuitry

(1) **electronics** industry, (2) **electronics** store

The company specializes in manufacturing and selling cutting-edge **electronics**.

landfill

n. a site for the disposal of waste materials

synonym: dump, trash-yard, waste-yard

(1) disposal in a **landfill**, (2) **landfill** sites

This country faces problems in finding enough suitable **landfill** sites.

insulation

n. the act or process of covering something to stop heat, sound, electricity, etc. from passing through; the materials used for this

synonym: cushioning, covering, nonconductor

(1) additional sound **insulation**, (2) **insulation** board

He installed fiberglass **insulation** in the wall.

insistent

adj. characterized by a persistent and forceful demand or urging; unyielding or uncompromising in one's position or viewpoint; persistent in pursuit of a goal or objective

synonym: demanding, persistent, assertive

(1) **insistent** tone, (2) **insistent** demand

The **insistent** chatter from the other room made it impossible for her to focus on her work.

hack

v. to hit and cut somebody or something roughly and violently; to find a bug in a computer program and break into their systems or networks

synonym : cut, chop, crack

(1) **hack** through the jungle, (2) **hack** into the program

This blog offers a variety of tips for **hacking** everyday life.

rub

v. to move one's hand or an object over the surface of something with pressure

synonym : scrub, massage, stroke

(1) **rub** shoulders, (2) **rub** a glass window

She **rubbed** the sore spot on her leg to ease the pain.

volt

n. a unit of measurement for electrical potential difference or electromotive force, equal to the force required to move one ampere of electric charge through one ohm of resistance

synonym : electric potential, V

(1) **volt** meter, (2) 12- **volt** battery

The battery has a low **volt** output, insufficient to power the device.

homemade

adj. made at home rather than in a factory or workshop

synonym : self-made

(1) **homemade** article, (2) **homemade** bread

I prefer **homemade** cookies over store-bought ones.

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.

partial

adj. not complete; fragmentary; favoring somebody or something very much

synonym : limited, incomplete, partisan

(1) **partial** withdrawal, (2) **partial** knowledge

Although some progress had been made, the study's findings were **partial**.

Session 2: Spelling

- | | |
|--------------------------------------|---|
| 1. effect of cosmic r_ys | <i>n.</i> a narrow line of light, heat, or another form of energy |
| 2. de_____r at the future | <i>n.</i> the feeling that there is no hope and you cannot do anything to improve a difficult situation |
| 3. su_____ly attacked by an enemy | <i>adv.</i> quickly and unexpectedly |
| 4. ins_____on board | <i>n.</i> the act or process of covering something to stop heat, sound, electricity, etc. from passing through; the materials used for this |
| 5. mi__r strike | <i>n.</i> a person who works in a mine (= excavation in the Earth from which ores and minerals are extracted), especially one who extracts coal, minerals, or precious metals from the Earth |
| 6. ch_____en the baby at the baptism | <i>v.</i> to give a name to a baby at a Christian ceremony to welcome them into the Christian Church |
| 7. mo_____r an exam | <i>v.</i> to observe, check, and track the progress or quality of something over a period of time |
| 8. po_____te the countryside | <i>v.</i> to inhabit or occupy a particular area, region, or environment with a certain number or type of people, animals, or plants; to fill out or complete a form, document, or database with relevant information |

ANSWERS: 1. ray, 2. despair, 3. suddenly, 4. insulation, 5. miner, 6. christen, 7. monitor, 8. populate

9. i__e of paradise *n.* a small island, especially one in the sea
10. mi__r industry *n.* a person who works in a mine (= excavation in the Earth from which ores and minerals are extracted), especially one who extracts coal, minerals, or precious metals from the Earth
11. ni___l ore *n.* a silver-white metallic element with the symbol Ni, used in many alloys and as a coin; a United States coin worth one-twentieth of a dollar
12. ep__h-making event *n.* a particular period of time, usually marked by significant events or developments; a division of geologic time
13. in_____e him to write a novel *v.* to make somebody fill with the desire, confidence, or enthusiasm, especially to do something creative
14. tr_____rm heat into power *v.* to change in outward structure or looks;
15. feel di___y *n.* a feeling of discouragement, distress, or anxiety caused by something unexpected or unwelcome; a sudden loss of courage or confidence
16. 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
17. b__y emotion *v.* to place a dead body in the ground, grave, or tomb
18. absolutely fa_____ic event *adj.* extremely good; excellent

ANSWERS: 9. isle, 10. miner, 11. nickel, 12. epoch, 13. inspire, 14. transform, 15. dismay, 16. reverse, 17. bury, 18. fantastic

19. double qu_____on marks *n.* a group of words taken from a text or speech and repeated by someone other than the original author or speaker
20. chocolate dec_____ons for cakes *n.* the act of adding something that is intended to make something more attractive; an award or honor that is given to someone in recognition of their achievements
21. ma_____l place *adj.* produced by or containing supernatural powers
22. m__t down gold *v.* to turn from something solid into something soft or liquid as a result of heating
23. n_g political leaders *v.* to annoy or irritate someone persistently with repeated complaints, requests, or criticism; (noun) an old or over-worked horse
24. ad_____e the technology *v.* to go or move forward; to develop in a positive way
25. m__d allergy *n.* a hollow container used to give shape to liquid or soft substance, which then becomes solid in the same shape as the container; a soft, green, or gray growth that forms on stale food or objects exposed to warm, moist air for too long
26. co_____ed of the idea *adj.* completely certain about something; having a strong belief or conviction in a particular religion
27. as___e an important role *v.* to think or accept something to be true without having proof of it; to take or begin to have power; to begin to exhibit a specific quality or appearance

ANSWERS: 19. quotation, 20. decoration, 21. magical, 22. melt, 23. nag, 24. advance, 25. mold, 26. convinced, 27. assume

28. a fo___l leaf *n.* any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock
29. ho_____de article *adj.* made at home rather than in a factory or workshop
30. co_____ce an opponent *v.* to persuade someone or make someone believe that something is true
31. pa___t law *n.* a legal document that grants an inventor exclusive rights to their invention for a certain period of time; the invention or process for which a patent has been granted
32. ch_____en a child *v.* to give a name to a baby at a Christian ceremony to welcome them into the Christian Church
33. an ele_____al storm *adj.* relating to electricity
34. ax__n particle *n.* a hypothetical elementary particle that is a constituent of dark matter and has properties similar to those of neutrinos but with a much greater mass
35. deep cr___e *n.* a line or mark made by folding or wrinkling a surface or material; a slight ridge or fold in fabric or paper caused by pressing or folding
36. d__g a chair over *v.* to pull or haul with force
37. major paradigm sh__t *n.* a slight transition in position, direction, or trend
38. his conclusion was ob_____s *adj.* easy to see, discover or understand

ANSWERS: 28. fossil, 29. homemade, 30. convince, 31. patent, 32. christen, 33. electrical, 34. axion, 35. crease, 36. drag, 37. shift, 38. obvious

39. marine ge_____st *n.* a scientist or specialist who studies geology
40. post-modern ep__h *n.* a particular period of time, usually marked by significant events or developments; a division of geologic time
41. pr_____ve society *adj.* of or relating to an early stage of society with no industry or technological development; simple, naive, or old-fashioned in style
42. gas-fired fu_____e *n.* an enclosed chamber for heating metal or glass to very high temperatures
43. la_____ll sites *n.* a site for the disposal of waste materials
44. co_____d a battery *n.* authority, control, or mastery over something, often referring to military or leadership contexts; a directive, order, or instruction; expertise or confidence in a specific area; (verb) to give an authoritative order or instruction, or to be in charge or control of something
45. a scientific di_____ry *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
46. 12-v__t battery *n.* a unit of measurement for electrical potential difference or electromotive force, equal to the force required to move one ampere of electric charge through one ohm of resistance

ANSWERS: 39. geologist, 40. epoch, 41. primitive, 42. furnace, 43. landfill, 44. command, 45. discovery, 46. volt

47. local h__o *n.* a person who is admired or idealized for courage, outstanding achievements, or noble qualities; a character in literature or history who is central to the plot and who exhibits heroic qualities
48. prince ro__l *adj.* relating to or belonging to the king or queen or a member of their family
49. 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
50. ac__c solution *adj.* having a pH lower than 7; having characteristics of an acid, such as tasting sour or corroding metal
51. use of nu____r power *adj.* of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy
52. artificial cr____re *n.* a living being, especially an animal
53. manually op____e a machine *v.* to work in a particular way; to supervise something
54. degree in ele____al engineering *adj.* relating to electricity
55. at a te____ic speed *adj.* causing terror or fear; extremely great or intense; very good or excellent
56. c__t a charming eye *v.* to cause light or shadow to appear on a surface; to assign or choose someone such as an actor or representative, especially by selection process

ANSWERS: 47. hero, 48. royal, 49. process, 50. acidic, 51. nuclear, 52. creature, 53. operate, 54. electrical, 55. terrific, 56. cast

57. engineering und_____ate *n.* a student who is studying for their first degree at a university or other higher education institution
58. 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
59. exposure to to__c chemicals *adj.* of or relating to or caused by a poison; poisonous
60. j_g of beer *n.* a container with a handle and spout used for pouring liquids, typically made of ceramics, glass, or metal; (verb) to cook something slowly in a covered container
61. r_b a glass window *v.* to move one's hand or an object over the surface of something with pressure
62. local ge_____y *n.* a science that deals with the history of the earth as recorded in rocks
63. elliptic ga_____y *n.* an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity
64. in_____nt demand *adj.* characterized by a persistent and forceful demand or urging; unyielding or uncompromising in one's position or viewpoint; persistent in pursuit of a goal or objective
65. re_____e after four terms *v.* to withdraw from one's position or occupation, especially because of age
66. the tra_____ion of a tadpole into a frog *n.* a complete change in form, nature, or appearance of someone or something

ANSWERS: 57. undergraduate, 58. recycle, 59. toxic, 60. jug, 61. rub, 62. geology, 63. galaxy, 64. insistent, 65. retire, 66. transformation

67. po____te the spreadsheet *v.* to inhabit or occupy a particular area, region, or environment with a certain number or type of people, animals, or plants; to fill out or complete a form, document, or database with relevant information
68. de____e topic *n.* a formal discussion or argument of opposing viewpoints, often to persuade others to adopt a specific position; a public discussion, often on an issue of current interest, in which participants offer opinions and differing perspectives
69. co____r alloy *n.* a chemical element that is a soft, malleable, and ductile metal with very high thermal and electrical conductivity
70. n_g about the minor thing *v.* to annoy or irritate someone persistently with repeated complaints, requests, or criticism; (noun) an old or over-worked horse
71. r_b shoulders *v.* to move one's hand or an object over the surface of something with pressure
72. hi_____ke a ride *v.* to obtain a ride in a passing vehicle by signaling to the driver or waving one's thumb; to travel by getting a free ride in someone else's vehicle
73. vi_____er community *n.* a person who lives in a village or small rural community; a person who is part of a close-knit and traditional community
74. a casting m__d *n.* a hollow container used to give shape to liquid or soft substance, which then becomes solid in the same shape as the container; a soft, green, or gray growth that forms on stale food or objects exposed to warm, moist air for too long

ANSWERS: 67. populate, 68. debate, 69. copper, 70. nag, 71. rub, 72. hitchhike, 73. villager, 74. mold

75. r_g a ship with new sails *v.* to prepare or set up something in a certain way, typically in a carefully planned or fraudulent manner; to equip with sails or masts
76. colorful dec_____ons *n.* the act of adding something that is intended to make something more attractive; an award or honor that is given to someone in recognition of their achievements
77. gold o_e *n.* a naturally occurring mineral or rock from which a valuable substance, typically a metal, can be extracted through mining or other extraction methods
78. ba___y noticeable *adv.* just enough; hardly; with great difficulty or effort
79. sheer li_____ne cliffs *n.* a sedimentary rock that is composed mainly of calcium carbonate, which is the mineral calcite
80. el_____fy a manufacturing process *v.* to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
81. mi_____l rights *n.* a solid inorganic substance occurring in nature having a definite chemical composition
82. LED-em_____ed glass *adj.* fixed firmly into the surface of something
83. ind_____al alcohol *adj.* of or relating to or resulting from industry

ANSWERS: 75. rig, 76. decoration, 77. ore, 78. barely, 79. limestone, 80. electrify, 81. mineral, 82. embedded, 83. industrial

84. opaque to X-r_ys *n.* a narrow line of light, heat, or another form of energy
85. die su____ly *adv.* quickly and unexpectedly
86. even more unf_____ely *adv.* by bad luck; unluckily
87. biological po____r *n.* a substance composed of macromolecules (= large groups of atoms) made from many smaller and simpler molecules
88. de___e a question *v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options
89. rad_____ve decay *adj.* emitting powerful and dangerous energy when the nuclei (= central parts) of atoms are broken up
90. ba___y finished *adv.* just enough; hardly; with great difficulty or effort
91. la_____l communication *adj.* relating to or situated on the side; moving or extending sideways; involving or relating to the transfer of information or responsibilities between individuals or departments within an organization
92. nu____r fusion *adj.* of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy
93. cr_____re of habit *n.* a living being, especially an animal
94. Doppler sh__t *n.* a slight transition in position, direction, or trend

ANSWERS: 84. ray, 85. suddenly, 86. unfortunately, 87. polymer, 88. decide, 89. radioactive, 90. barely, 91. lateral, 92. nuclear, 93. creature, 94. shift

95. hy_____ze starch with enzymes *v.* to break down or decompose a compound or substance by a chemical reaction with water, often resulting in the separation of its components
96. brink of ext_____on *n.* the complete disappearance of a species from the earth
97. ele_____cs store *n.* the branch of physics and technology that deals with the behavior and control of electrons and the use of electronic devices and systems
98. social st_____m *n.* a layer or level of something, usually referring to a layer of rock or soil in the Earth's crust
99. vitamin and mi_____ls *n.* a solid inorganic substance occurring in nature having a definite chemical composition
100. in_____nt tone *adj.* characterized by a persistent and forceful demand or urging; unyielding or uncompromising in one's position or viewpoint; persistent in pursuit of a goal or objective
101. sc_____h off a name *v.* to cut or damage the surface of something or the skin with a sharp or pointed object
102. burning of fo____l fuels *n.* any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock
103. unsung h__o *n.* a person who is admired or idealized for courage, outstanding achievements, or noble qualities; a character in literature or history who is central to the plot and who exhibits heroic qualities

ANSWERS: 95. hydrolyze, 96. extinction, 97. electronics, 98. stratum, 99. mineral, 100. insistent, 101. scratch, 102. fossil, 103. hero

104. ac___c taste *adj.* having a pH lower than 7; having characteristics of an acid, such as tasting sour or corroding metal
105. st_____m corneum *n.* a layer or level of something, usually referring to a layer of rock or soil in the Earth's crust
106. ext_____on prevention *n.* the complete disappearance of a species from the earth
107. a stone wall su_____nds the palace *v.* to be all around something or somebody
108. h__k through the jungle *v.* to hit and cut somebody or something roughly and violently; to find a bug in a computer program and break into their systems or networks
109. intellectual f__t *n.* a notable or impressive achievement, especially one that requires great skill or bravery
110. en_____er shortage *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
111. de___e my position *v.* to state or explain precisely the nature, scope, or meaning of something
112. ob_____s reasons *adj.* easy to see, discover or understand
113. as___e a lousy attitude to his boss *v.* to think or accept something to be true without having proof of it; to take or begin to have power; to begin to exhibit a specific quality or appearance
114. tec_____cal advancement *adj.* based on scientific and industrial progress

ANSWERS: 104. acidic, 105. stratum, 106. extinction, 107. surround, 108. hack, 109. feat, 110. engineer, 111. define, 112. obvious, 113. assume, 114. technological

115. a wanted po___r *n.* a large sheet or picture that is placed either on a public space to promote or announce something or on a wall to decorate it
116. precious me__l *n.* a solid material that is typically hard, shiny, malleable, fusible, and ductile, with good electrical and thermal conductivity, and often used as a structural material, a conductor of heat or electricity, or for decorative purposes
117. pa_____l withdrawal *adj.* not complete; fragmentary; favoring somebody or something very much
118. potato st___h *n.* a complex carbohydrate found in many plants, including rice, wheat, and potatoes that is an important foodstuff for humans and animals
119. bureau of ge_____y *n.* a science that deals with the history of the earth as recorded in rocks
120. co_____ed criminal *adj.* completely certain about something; having a strong belief or conviction in a particular religion
121. flop down in di___y *n.* a feeling of discouragement, distress, or anxiety caused by something unexpected or unwelcome; a sudden loss of courage or confidence
122. pre-mo___n agricultural society *adj.* of or belonging to the present time or recent times
123. officially di_____ved the marriage *v.* to be or cause to be absorbed by a liquid to form a part of the solution; to close down or dismiss

ANSWERS: 115. poster, 116. metal, 117. partial, 118. starch, 119. geology, 120. convinced, 121. dismay, 122. modern, 123. dissolve

124. Wi_____ia article *n.* an online encyclopedia that allows users to contribute and edit articles collaboratively; a vast and frequently updated repository of information on a wide range of topics
125. r_g an election *v.* to prepare or set up something in a certain way, typically in a carefully planned or fraudulent manner; to equip with sails or masts
126. rad_____ve isotope *adj.* emitting powerful and dangerous energy when the nuclei (= central parts) of atoms are broken up
127. us_____s in the kitchen *adj.* not serving any useful purpose; having no practical result
128. slice of to__t *n.* slices of bread browned on both sides that have been put near a high heat; a drink in honor of or to the health of a person or even
129. de___e on a course of action *v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options
130. pathogenic ba_____ia *n.* single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease
131. a ro__l palace *adj.* relating to or belonging to the king or queen or a member of their family
132. make a va__e answer *adj.* not clearly expressed or understood

ANSWERS: 124. Wikipedia, 125. rig, 126. radioactive, 127. useless, 128. toast, 129. decide, 130. bacteria, 131. royal, 132. vague

133. sn__l pace *n.* a slow-moving mollusk with a spiral shell that it uses to protect its body
134. save the pl___t *n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
135. the big att_____on of the event *n.* a sense of like someone, particularly sexually; something that causes individuals to desire to go to a specific area or do a specific activity
136. sc_____h my signature *v.* to cut or damage the surface of something or the skin with a sharp or pointed object
137. a convivial atm_____re *n.* the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work
138. disposal in a la_____ll *n.* a site for the disposal of waste materials
139. sy_____ic fiber *adj.* made by combining chemical substances as opposed to being naturally occurring
140. sl___e removal *n.* a thick, wet mixture of liquid and solid matter, typically one that is unpleasant or harmful
141. de___e a word *v.* to state or explain precisely the nature, scope, or meaning of something
142. to__c molecule *adj.* of or relating to or caused by a poison; poisonous
143. spare co_____nts for cars *n.* one of several parts that combines with others to form something bigger

ANSWERS: 133. snail, 134. planet, 135. attraction, 136. scratch, 137. atmosphere, 138. landfill, 139. synthetic, 140. sludge, 141. define, 142. toxic, 143. component

144. absolutely te_____ic *adj.* causing terror or fear; extremely great or intense; very good or excellent
145. the at_____t to rescue the hostages *n.* an act or effort of trying to do something, especially something difficult
146. a reckless at_____t *n.* an act or effort of trying to do something, especially something difficult
147. harmless ba_____ia *n.* single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease
148. d__g a team down *v.* to pull or haul with force
149. eye-catching po_____rs *n.* a large sheet or picture that is placed either on a public space to promote or announce something or on a wall to decorate it
150. wo_____t block *n.* a print made by cutting a design into a block of wood and then inking the surface and pressing it onto paper
151. three-fourths of a po__d *n.* the standard unit of money in the UK; the standard unit of weight equal to 16 ounces
152. carbon dioxide in the atm_____re *n.* the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work
153. co_____e against a friend *v.* to strive to achieve more success than someone or something

ANSWERS: 144. terrific, 145. attempt, 146. attempt, 147. bacteria, 148. drag, 149. poster, 150. woodcut, 151. pound, 152. atmosphere, 153. compete

154. 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
155. drink a to__t *n.* slices of bread browned on both sides that have been put near a high heat; a drink in honor of or to the health of a person or even
156. und_____ate course *n.* a student who is studying for their first degree at a university or other higher education institution
157. a brief ex_____t from the book *n.* a short passage taken from a book, piece of music, etc.; a substance obtained from something through a specific process; (verb) to obtain from something or to remove something by effort or force
158. sy_____ic fertilizer *adj.* made by combining chemical substances as opposed to being naturally occurring
159. ni___l plate *n.* a silver-white metallic element with the symbol Ni, used in many alloys and as a coin; a United States coin worth one-twentieth of a dollar
160. m__t the ice *v.* to turn from something solid into something soft or liquid as a result of heating
161. mi_____ve radiation *n.* a form of electromagnetic radiation with wavelengths ranging from about one millimeter to one meter and frequencies between 300 MHz (0.3 GHz) and 300 GHz; an electric oven that cooks food by exposing it to high-frequency electromagnetic radiation, which causes the food molecules to vibrate and heat up quickly

ANSWERS: 154. reverse, 155. toast, 156. undergraduate, 157. extract, 158. synthetic, 159. nickel, 160. melt, 161. microwave

162. an____ng banner ad *adj.* making someone feel slightly angry
163. me__l fabrication *n.* a solid material that is typically hard, shiny, malleable, fusible, and ductile, with good electrical and thermal conductivity, and often used as a structural material, a conductor of heat or electricity, or for decorative purposes
164. welding met_____gy *n.* a branch of materials science and engineering that stands at metals' physical and chemical properties, their compounds with other metals, and their mixtures, called alloys.
165. ceramic j_g *n.* a container with a handle and spout used for pouring liquids, typically made of ceramics, glass, or metal; (verb) to cook something slowly in a covered container
166. po_____r fiber *n.* a substance composed of macromolecules (= large groups of atoms) made from many smaller and simpler molecules
167. co_____ce her to go with us *v.* to persuade someone or make someone believe that something is true
168. disarm the b__b *n.* a weapon that explodes and is used to kill or injure people or to cause damage to something
169. tr_____rm an education system *v.* to change in outward structure or looks;
170. f__t accomplishment *n.* a notable or impressive achievement, especially one that requires great skill or bravery

ANSWERS: 162. annoying, 163. metal, 164. metallurgy, 165. jug, 166. polymer, 167. convince, 168. bomb, 169. transform, 170. feat

171. copper o_e *n.* a naturally occurring mineral or rock from which a valuable substance, typically a metal, can be extracted through mining or other extraction methods
172. li_____ne pavement *n.* a sedimentary rock that is composed mainly of calcium carbonate, which is the mineral calcite
173. co_____e fiercely *v.* to strive to achieve more success than someone or something
174. thousands of po__ds *n.* the standard unit of money in the UK; the standard unit of weight equal to 16 ounces
175. beginning of the ind_____al revolution *adj.* of or relating to or resulting from industry
176. atomic b__bs *n.* a weapon that explodes and is used to kill or injure people or to cause damage to something
177. former em_____r *n.* the male ruler of an empire
178. us_____s information *adj.* not serving any useful purpose; having no practical result
179. tec_____cal policy *adj.* based on scientific and industrial progress
180. di_____ve the sugar *v.* to be or cause to be absorbed by a liquid to form a part of the solution; to close down or dismiss
181. pa___t application *n.* a legal document that grants an inventor exclusive rights to their invention for a certain period of time; the invention or process for which a patent has been granted

ANSWERS: 171. ore, 172. limestone, 173. compete, 174. pound, 175. industrial, 176. bomb, 177. emperor, 178. useless, 179. technological, 180. dissolve, 181. patent

182. ad_____e a cooperative relationship *v.* to go or move forward; to develop in a positive way
183. op_____e 24 hours a day *v.* to work in a particular way; to supervise something
184. di_____ar without a trace *v.* to cease to exist or be visible
185. cr_____e in fabric *n.* a line or mark made by folding or wrinkling a surface or material; a slight ridge or fold in fabric or paper caused by pressing or folding
186. ax____n mass *n.* a hypothetical elementary particle that is a constituent of dark matter and has properties similar to those of neutrinos but with a much greater mass
187. st____h granules *n.* a complex carbohydrate found in many plants, including rice, wheat, and potatoes that is an important foodstuff for humans and animals
188. take a qu_____on *n.* a group of words taken from a text or speech and repeated by someone other than the original author or speaker
189. in_____e a feeling of curiosity *v.* to make somebody fill with the desire, confidence, or enthusiasm, especially to do something creative
190. su_____nd a town *v.* to be all around something or somebody
191. tiny i____e *n.* a small island, especially one in the sea
192. em_____ed systems *adj.* fixed firmly into the surface of something

ANSWERS: 182. advance, 183. operate, 184. disappear, 185. crease, 186. axion, 187. starch, 188. quotation, 189. inspire, 190. surround, 191. isle, 192. embedded

193. co___r belt *n.* a chemical element that is a soft, malleable, and ductile metal with very high thermal and electrical conductivity
194. local vi_____er *n.* a person who lives in a village or small rural community; a person who is part of a close-knit and traditional community
195. a fa_____ic dress *adj.* extremely good; excellent
196. new design el_____ts *n.* a fundamental or essential part of something
197. 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
198. pa_____l knowledge *adj.* not complete; fragmentary; favoring somebody or something very much
199. b__y in the earth *v.* to place a dead body in the ground, grave, or tomb
200. sn__l mail *n.* a slow-moving mollusk with a spiral shell that it uses to protect its body
201. re_____e the cardboard boxes *v.* to sort and collect things to process them and produce valuable materials that can be used again
202. 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

ANSWERS: 193. copper, 194. villager, 195. fantastic, 196. element, 197. electrify, 198. partial, 199. bury, 200. snail, 201. recycle, 202. process

203. the tr__k of the body *n.* the main stem or body of a tree which its branches grow
204. magnetic st__l *n.* a strong metal alloy made up of iron with typically a few tenths of a percent of carbon used for making things that need a strong structure
205. in____te the room from sound *v.* to protect something by interposing material that prevents heat, noise, electricity, etc.
206. la____l incisor *adj.* relating to or situated on the side; moving or extending sideways; involving or relating to the transfer of information or responsibilities between individuals or departments within an organization
207. a civil en____er *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
208. mo____r the data carefully *v.* to observe, check, and track the progress or quality of something over a period of time
209. de___e competition *n.* a formal discussion or argument of opposing viewpoints, often to persuade others to adopt a specific position; a public discussion, often on an issue of current interest, in which participants offer opinions and differing perspectives
210. an____ng habit *adj.* making someone feel slightly angry
211. planetary ge____st *n.* a scientist or specialist who studies geology

ANSWERS: 203. trunk, 204. steel, 205. insulate, 206. lateral, 207. engineer, 208. monitor, 209. debate, 210. annoying, 211. geologist

212. Wi_____ia entry *n.* an online encyclopedia that allows users to contribute and edit articles collaboratively; a vast and frequently updated repository of information on a wide range of topics
213. nickel met_____gy *n.* a branch of materials science and engineering that stands at metals' physical and chemical properties, their compounds with other metals, and their mixtures, called alloys.
214. botanical ex_____t *n.* a short passage taken from a book, piece of music, etc.; a substance obtained from something through a specific process; (verb) to obtain from something or to remove something by effort or force
215. the tr__k of the tree *n.* the main stem or body of a tree which its branches grow
216. electrical fu_____e *n.* an enclosed chamber for heating metal or glass to very high temperatures
217. mi_____ve popcorn *n.* a form of electromagnetic radiation with wavelengths ranging from about one millimeter to one meter and frequencies between 300 MHz (0.3 GHz) and 300 GHz; an electric oven that cooks food by exposing it to high-frequency electromagnetic radiation, which causes the food molecules to vibrate and heat up quickly
218. em_____r of Rome *n.* the male ruler of an empire

ANSWERS: 212. Wikipedia, 213. metallurgy, 214. extract, 215. trunk, 216. furnace, 217. microwave, 218. emperor

219. key co_____nt *n.* one of several parts that combines with others to form something bigger
220. co_____d and control *n.* authority, control, or mastery over something, often referring to military or leadership contexts; a directive, order, or instruction; expertise or confidence in a specific area; (verb) to give an authoritative order or instruction, or to be in charge or control of something
221. wo_____t printing *n.* a print made by cutting a design into a block of wood and then inking the surface and pressing it onto paper
222. pl____t like the Earth *n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
223. the great di_____ry of the century *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
224. blow a be_____s *n.* a device consisting of a bag or chamber with flexible sides that is expanded and contracted to draw in air through a valve and then force it out through a tube; a device used to blow air into a fire to make it burn more intensely
225. hi_____ke across the country *v.* to obtain a ride in a passing vehicle by signaling to the driver or waving one's thumb; to travel by getting a free ride in someone else's vehicle

ANSWERS: 219. component, 220. command, 221. woodcut, 222. planet, 223. discovery, 224. bellows, 225. hitchhike

226. cast a tra_____ion spell *n.* a complete change in form, nature, or appearance of someone or something
227. in_____te electricity *v.* to protect something by interposing material that prevents heat, noise, electricity, etc.
228. v__t meter *n.* a unit of measurement for electrical potential difference or electromotive force, equal to the force required to move one ampere of electric charge through one ohm of resistance
229. em___e from poverty *v.* to move out of or away from something and become visible
230. artifact of a pr_____ve humankind *adj.* of or relating to an early stage of society with no industry or technological development; simple, naive, or old-fashioned in style
231. em___e as a butterfly *v.* to move out of or away from something and become visible
232. ma_____l powers *adj.* produced by or containing supernatural powers
233. h__k into the program *v.* to hit and cut somebody or something roughly and violently; to find a bug in a computer program and break into their systems or networks
234. sl___e treatment *n.* a thick, wet mixture of liquid and solid matter, typically one that is unpleasant or harmful
235. st__l beam *n.* a strong metal alloy made up of iron with typically a few tenths of a percent of carbon used for making things that need a strong structure

ANSWERS: 226. transformation, 227. insulate, 228. volt, 229. emerge, 230. primitive, 231. emerge, 232. magical, 233. hack, 234. sludge, 235. steel

236. untold de_____r *n.* the feeling that there is no hope and you cannot do anything to improve a difficult situation
237. ho_____de bread *adj.* made at home rather than in a factory or workshop
238. a ga_____y of famous actors *n.* an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity
239. hy_____ze a chemical compound *v.* to break down or decompose a compound or substance by a chemical reaction with water, often resulting in the separation of its components
240. ele_____cs industry *n.* the branch of physics and technology that deals with the behavior and control of electrons and the use of electronic devices and systems
241. unf_____ely caught in a shower *adv.* by bad luck; unluckily
242. popular tourist att_____on *n.* a sense of like someone, particularly sexually; something that causes individuals to desire to go to a specific area or do a specific activity
243. va__e idea *adj.* not clearly expressed or understood
244. additional sound ins_____on *n.* the act or process of covering something to stop heat, sound, electricity, etc. from passing through; the materials used for this
245. c__t a ballot *v.* to cause light or shadow to appear on a surface; to assign or choose someone such as an actor or representative, especially by selection process

ANSWERS: 236. despair, 237. homemade, 238. galaxy, 239. hydrolyze, 240. electronics, 241. unfortunately, 242. attraction, 243. vague, 244. insulation, 245. cast

246. re___e voluntarily *v.* to withdraw from one's position or occupation, especially because of age
247. nonmetallic el____ts *n.* a fundamental or essential part of something
248. mo___n poetry *adj.* of or belonging to the present time or recent times
249. di_____ar after a week *v.* to cease to exist or be visible
250. be____s pump *n.* a device consisting of a bag or chamber with flexible sides that is expanded and contracted to draw in air through a valve and then force it out through a tube; a device used to blow air into a fire to make it burn more intensely

ANSWERS: 246. retire, 247. element, 248. modern, 249. disappear, 250. bellows

Session 3: Fill in the Blanks

1. _____ design has become more focused on human nature aspect than ever before.
adj. of or relating to or resulting from industry
2. The political party _____ after much internal fighting.
v. to be or cause to be absorbed by a liquid to form a part of the solution; to close down or dismiss
3. The room was filled with beautiful _____ for the wedding reception.
n. the act of adding something that is intended to make something more attractive; an award or honor that is given to someone in recognition of their achievements
4. The employees expressed their _____ at the sudden announcement of massive layoffs.
n. a feeling of discouragement, distress, or anxiety caused by something unexpected or unwelcome; a sudden loss of courage or confidence
5. 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
6. The company specializes in manufacturing and selling cutting-edge _____.
n. the branch of physics and technology that deals with the behavior and control of electrons and the use of electronic devices and systems

ANSWERS: 1. Industrial, 2. dissolved, 3. decorations, 4. dismay, 5. electrify, 6. electronics

7. Scientific knowledge will _____ significantly with the power of AI.
v. to go or move forward; to develop in a positive way
8. He _____ the heavy suitcase behind him as he walked.
v. to pull or haul with force
9. The third _____ was far more successful.
n. an act or effort of trying to do something, especially something difficult
10. He included a _____ from the book in his essay.
n. a group of words taken from a text or speech and repeated by someone other than the original author or speaker
11. The use of cluster _____ is strictly prohibited by international law.
n. a weapon that explodes and is used to kill or injure people or to cause damage to something
12. 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
13. She couldn't _____ whether to order the pizza or the pasta for dinner.
v. to make up someone's mind about something; to come to a conclusion or judgment after considering options
14. These issues baffled _____ for many years.
n. a scientist or specialist who studies geology

ANSWERS: 7. advance, 8. dragged, 9. attempt, 10. quotation, 11. bombs, 12. process, 13. decide, 14. geologists

15. The _____ of the dinosaurs is thought to have been caused by an asteroid impact.
- n.* the complete disappearance of a species from the earth
16. It was the _____ of a dinosaur tooth.
- n.* any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock
17. The newborn baby was _____ in a ceremony at the church.
- v.* to give a name to a baby at a Christian ceremony to welcome them into the Christian Church
18. The geologist identified a new _____ of rock through his research.
- n.* a layer or level of something, usually referring to a layer of rock or soil in the Earth's crust
19. The Milky Way _____ has numerous water-bearing planets.
- n.* an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity
20. _____ diamonds play an essential role as machine tool blades.
- adj.* made by combining chemical substances as opposed to being naturally occurring
21. The coal _____ worked tirelessly to extract valuable minerals from deep underground.
- n.* a person who works in a mine (= excavation in the Earth from which ores and minerals are extracted), especially one who extracts coal, minerals, or precious metals from the Earth

ANSWERS: 15. extinction, 16. fossil, 17. christened, 18. stratum, 19. galaxy, 20. Synthetic, 21. miner

22. The deep sea _____ was unlike anything the scientists had ever seen before.
n. a living being, especially an animal
23. I love to spend my vacations on a beautiful _____ with pristine beaches.
n. a small island, especially one in the sea
24. The new amusement park ride was _____ with twists, turns, and drops that left riders screaming with excitement.
adj. extremely good; excellent
25. The shirt had a noticeable _____ along the sleeve from being folded.
n. a line or mark made by folding or wrinkling a surface or material; a slight ridge or fold in fabric or paper caused by pressing or folding
26. Don't _____ your mosquito bites.
v. to cut or damage the surface of something or the skin with a sharp or pointed object
27. The Great Pyramid of Giza was built using blocks of _____.
n. a sedimentary rock that is composed mainly of calcium carbonate, which is the mineral calcite
28. We had our bedroom _____ before winter came.
v. to protect something by interposing material that prevents heat, noise, electricity, etc.
29. Although some progress had been made, the study's findings were _____.
adj. not complete; fragmentary; favoring somebody or something very much

ANSWERS: 22. creature, 23. isle, 24. fantastic, 25. crease, 26. scratch, 27. limestone, 28. insulated, 29. partial

30. His friend's death drove him to _____.
- n.* the feeling that there is no hope and you cannot do anything to improve a difficult situation
31. Natural selection is an essential _____ in Darwin's theory of evolution.
- n.* a fundamental or essential part of something
32. The blacksmith's apprentice operated the _____ to maintain the forge's heat.
- n.* a device consisting of a bag or chamber with flexible sides that is expanded and contracted to draw in air through a valve and then force it out through a tube; a device used to blow air into a fire to make it burn more intensely
33. Deer, squirrels, and birds primarily _____ the forest.
- v.* to inhabit or occupy a particular area, region, or environment with a certain number or type of people, animals, or plants; to fill out or complete a form, document, or database with relevant information
34. Her research team made an important _____.
- n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
35. The soil in this region is too _____ for most crops to grow well.
- adj.* having a pH lower than 7; having characteristics of an acid, such as tasting sour or corroding metal
36. Her resistance _____ under his persuasion.
- v.* to turn from something solid into something soft or liquid as a result of heating
37. She _____ the sore spot on her leg to ease the pain.
- v.* to move one's hand or an object over the surface of something with pressure

ANSWERS: 30. despair, 31. element, 32. bellows, 33. populate, 34. discovery, 35. acidic, 36. melted, 37. rubbed

38. He installed fiberglass _____ in the wall.

- n.* the act or process of covering something to stop heat, sound, electricity, etc. from passing through; the materials used for this

39. I am considering what I should do to _____ him.

- v.* to persuade someone or make someone believe that something is true

40. The phone call is an _____ interruption.

- adj.* making someone feel slightly angry

41. He was a visiting _____ professor at the University of Tokyo.

- n.* a science that deals with the history of the earth as recorded in rocks

42. Who answers _____ knows little.

- adv.* quickly and unexpectedly

43. The mine produces high-quality iron ____.

- n.* a naturally occurring mineral or rock from which a valuable substance, typically a metal, can be extracted through mining or other extraction methods

44. It is an incredible _____ to climb Mount Everest, the highest mountain in the world.

- n.* a notable or impressive achievement, especially one that requires great skill or bravery

45. Their headquarters are in a _____ skyscraper.

- adj.* of or belonging to the present time or recent times

46. I heated my leftover food in the _____ oven, which tasted just as good as freshly cooked.

- n.* a form of electromagnetic radiation with wavelengths ranging from about one millimeter to one meter and frequencies between 300 MHz (0.3 GHz) and 300 GHz; an electric oven that cooks food by exposing it to high-frequency electromagnetic radiation, which causes the food molecules to vibrate and heat up quickly

ANSWERS: 38. insulation, 39. convince, 40. annoying, 41. geology, 42. suddenly, 43. ore, 44. feat, 45. modern, 46. microwave

47. The gardener found a _____ slowly making its way through the lettuce patch.
n. a slow-moving mollusk with a spiral shell that it uses to protect its body
48. The _____ chip in my credit card allows me to make contactless payments.
adj. fixed firmly into the surface of something
49. The _____ at the bottom of the river was a toxic hazard for marine life.
n. a thick, wet mixture of liquid and solid matter, typically one that is unpleasant or harmful
50. Many countries have now agreed to a treaty banning the use of _____ weapons.
adj. of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy
51. Not all teachers accept citing _____ as a valid source for academic papers.
n. an online encyclopedia that allows users to contribute and edit articles collaboratively; a vast and frequently updated repository of information on a wide range of topics
52. Anesthetize the gum before _____ the teeth.
n. a short passage taken from a book, piece of music, etc.; a substance obtained from something through a specific process; (verb) to obtain from something or to remove something by effort or force
53. Destructive fungi thrive in moist environments, such as those seen in wounds on the _____.
n. the main stem or body of a tree which its branches grow
54. Could you help me _____ some furniture?
n. a slight transition in position, direction, or trend

ANSWERS: 47. snail, 48. embedded, 49. sludge, 50. nuclear, 51. Wikipedia, 52. extracting, 53. trunk, 54. shift

55. The spaceship began to burn up as it approached the Earth's _____.
- n.* the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work
56. Gamma _____ penetrate body tissues and cause cell damage.
- n.* a narrow line of light, heat, or another form of energy
57. There is plenty of space to _____ everyone.
- v.* to place a dead body in the ground, grave, or tomb
58. During colonial eras, new migratory patterns _____.
- v.* to move out of or away from something and become visible
59. The battery has a low _____ output, insufficient to power the device.
- n.* a unit of measurement for electrical potential difference or electromotive force, equal to the force required to move one ampere of electric charge through one ohm of resistance
60. The _____ in my pocket jingled as I walked.
- n.* a silver-white metallic element with the symbol Ni, used in many alloys and as a coin; a United States coin worth one-twentieth of a dollar
61. To advance this discussion, we must _____ "success" rigorously.
- v.* to state or explain precisely the nature, scope, or meaning of something
62. When heated, _____ molecules absorb water and become thick and gooey, making it a useful thickening agent in cooking.
- n.* a complex carbohydrate found in many plants, including rice, wheat, and potatoes that is an important foodstuff for humans and animals

ANSWERS: 55. atmosphere, 56. rays, 57. bury, 58. emerged, 59. volt, 60. nickel, 61. define, 62. starch

63. The _____ material was carefully stored in a lead-lined container.
adj. emitting powerful and dangerous energy when the nuclei (= central parts) of atoms are broken up
64. When I was a child, my mother often cast _____ spells to ease my pain whenever I was injured.
adj. produced by or containing supernatural powers
65. Understanding unitary _____ of a normal matrix require considerable mathematical sophistication.
n. a complete change in form, nature, or appearance of someone or something
66. This bridge is the third largest _____ bridge in the world.
n. a strong metal alloy made up of iron with typically a few tenths of a percent of carbon used for making things that need a strong structure
67. In the _____ the metal gleamed with radiance.
n. an enclosed chamber for heating metal or glass to very high temperatures
68. I _____ made it to the meeting on time, rushing from another appointment across town.
adv. just enough; hardly; with great difficulty or effort
69. The view from the top of the mountain was _____ with sweeping vistas of the valley below.
adj. causing terror or fear; extremely great or intense; very good or excellent
70. This country faces problems in finding enough suitable _____ sites.
n. a site for the disposal of waste materials

ANSWERS: 63. radioactive, 64. magical, 65. transformations, 66. steel, 67. furnace, 68. barely, 69. terrific, 70. landfill

71. The car's front bumper cost fifteen hundred _____.
- n.* the standard unit of money in the UK; the standard unit of weight equal to 16 ounces
72. Mushrooms and _____ are fungi.
- n.* a hollow container used to give shape to liquid or soft substance, which then becomes solid in the same shape as the container; a soft, green, or gray growth that forms on stale food or objects exposed to warm, moist air for too long
73. The company has filed for a _____ to protect its new invention.
- n.* a legal document that grants an inventor exclusive rights to their invention for a certain period of time; the invention or process for which a patent has been granted
74. On three sides, mountains _____ the settlement.
- v.* to be all around something or somebody
75. We noticed a _____ advertising a bargain.
- n.* a large sheet or picture that is placed either on a public space to promote or announce something or on a wall to decorate it
76. The treatments were done but, _____ were unsuccessful.
- adv.* by bad luck; unluckily
77. She had to _____ to the nearest gas station when her car broke down.
- v.* to obtain a ride in a passing vehicle by signaling to the driver or waving one's thumb; to travel by getting a free ride in someone else's vehicle
78. The following example _____ that the capacity of each battery is the same.
- v.* to think or accept something to be true without having proof of it; to take or begin to have power; to begin to exhibit a specific quality or appearance

ANSWERS: 71. pounds, 72. mold, 73. patent, 74. surround, 75. poster, 76. unfortunately, 77. hitchhike, 78. assumes

79. This machine is too difficult to _____ for me.
- v.* to work in a particular way; to supervise something
80. She couldn't stop _____ her husband to take out the trash.
- v.* to annoy or irritate someone persistently with repeated complaints, requests, or criticism; (noun) an old or over-worked horse
81. The soldier who sacrificed his life for his country is considered a national _____.
- n.* a person who is admired or idealized for courage, outstanding achievements, or noble qualities; a character in literature or history who is central to the plot and who exhibits heroic qualities
82. The _____ chatter from the other room made it impossible for her to focus on her work.
- adj.* characterized by a persistent and forceful demand or urging; unyielding or uncompromising in one's position or viewpoint; persistent in pursuit of a goal or objective
83. 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
84. The construction worker used a _____ saw to cut through the stubborn sheet metal.
- n.* a solid material that is typically hard, shiny, malleable, fusible, and ductile, with good electrical and thermal conductivity, and often used as a structural material, a conductor of heat or electricity, or for decorative purposes
85. The general gave a _____ to his troops to prepare for battle.
- n.* authority, control, or mastery over something, often referring to military or leadership contexts; a directive, order, or instruction; expertise or confidence in a specific area; (verb) to give an authoritative order or instruction, or to be in charge or control of something

ANSWERS: 79. operate, 80. nagging, 81. hero, 82. insistent, 83. recycle, 84. metal, 85. command

86. We are developing plant-derived _____ to reduce environmental impact.
- n.* a substance composed of macromolecules (= large groups of atoms) made from many smaller and simpler molecules
87. Mercury is the closest _____ to the sun.
- n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
88. The museum had an exhibition of famous artists' _____.
- n.* a print made by cutting a design into a block of wood and then inking the surface and pressing it onto paper
89. He _____ the game so he could win the prize.
- v.* to prepare or set up something in a certain way, typically in a carefully planned or fraudulent manner; to equip with sails or masts
90. 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
91. _____ prevalent in hospitals are often resistant to antibiotics.
- n.* single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease
92. This chemical compound is a thousand-fold more _____.
- adj.* of or relating to or caused by a poison; poisonous
93. She felt an instant _____ toward him.
- n.* a sense of like someone, particularly sexually; something that causes individuals to desire to go to a specific area or do a specific activity

ANSWERS: 86. polymers, 87. planet, 88. woodcuts, 89. rigged, 90. component, 91. Bacteria, 92. toxic, 93. attraction

94. He taught engineering and _____ classes.
- n.* a branch of materials science and engineering that stands at metals' physical and chemical properties, their compounds with other metals, and their mixtures, called alloys.
95. This blog offers a variety of tips for _____ everyday life.
- v.* to hit and cut somebody or something roughly and violently; to find a bug in a computer program and break into their systems or networks
96. Actuators convert _____ pulses into motion.
- adj.* relating to electricity
97. She filled the ____ with ice-cold water from the fridge.
- n.* a container with a handle and spout used for pouring liquids, typically made of ceramics, glass, or metal; (verb) to cook something slowly in a covered container
98. There are _____ differences between the two wine-producing regions.
- adj.* easy to see, discover or understand
99. The _____ field is believed to have an impact on the development of the universe.
- n.* a hypothetical elementary particle that is a constituent of dark matter and has properties similar to those of neutrinos but with a much greater mass
100. The class was composed of both _____ and graduate students.
- n.* a student who is studying for their first degree at a university or other higher education institution
101. This accident _____ a dark shadow over their lives.
- v.* to cause light or shadow to appear on a surface; to assign or choose someone such as an actor or representative, especially by selection process

ANSWERS: 94. metallurgy, 95. hacking, 96. electrical, 97. jug, 98. obvious, 99. axion, 100. undergraduate, 101. cast

102. The robust economy of the country is based on its _____ resources.
n. a solid inorganic substance occurring in nature having a definite chemical composition
103. The industry in this country is still _____.
adj. of or relating to an early stage of society with no industry or technological development; simple, naive, or old-fashioned in style
104. The _____ over climate change continues to be a hot topic in politics.
n. a formal discussion or argument of opposing viewpoints, often to persuade others to adopt a specific position; a public discussion, often on an issue of current interest, in which participants offer opinions and differing perspectives
105. _____ advances have disrupted many industries.
adj. based on scientific and industrial progress
106. My father's death _____ my life completely.
v. to change in outward structure or looks;
107. The unique style of this martial arts _____ many action film producers.
v. to make somebody fill with the desire, confidence, or enthusiasm, especially to do something creative
108. She is willing to give up her position in the _____ family to marry him.
adj. relating to or belonging to the king or queen or a member of their family
109. The rural _____ were saddened by the destruction of their homes in the natural disaster.
n. a person who lives in a village or small rural community; a person who is part of a close-knit and traditional community

ANSWERS: 102. mineral, 103. primitive, 104. debate, 105. Technological, 106. transformed, 107. inspired, 108. royal, 109. villagers

110. The old, rusty tools were now _____ and had to be thrown away.
adj. not serving any useful purpose; having no practical result
111. He made the old _____ coins shine.
n. a chemical element that is a soft, malleable, and ductile metal with very high thermal and electrical conductivity
112. You must _____ with others to obtain this position.
v. to strive to achieve more success than someone or something
113. The _____ once lived in the vast palace.
n. the male ruler of an empire
114. The public is _____ that the prime minister has committed fraud.
adj. completely certain about something; having a strong belief or conviction in a particular religion
115. The _____ movement of the car caused it to skid off the road.
adj. relating to or situated on the side; moving or extending sideways; involving or relating to the transfer of information or responsibilities between individuals or departments within an organization
116. After working for the company for 30 years, she decided to _____ from her job.
v. to withdraw from one's position or occupation, especially because of age
117. The _____ will repair my telephone tomorrow morning.
n. a person whose job is designing, building, or maintaining something such as machines, structures, or software

ANSWERS: 110. useless, 111. copper, 112. compete, 113. Emperor, 114. convinced, 115. lateral, 116. retire, 117. engineer

118. We made a _____ with everyone.

- n.* slices of bread browned on both sides that have been put near a high heat; a drink in honor of or to the health of a person or even

119. The research team seeks more efficient methods to _____ cellulose into its glucose components.

- v.* to break down or decompose a compound or substance by a chemical reaction with water, often resulting in the separation of its components

120. I prefer _____ cookies over store-bought ones.

- adj.* made at home rather than in a factory or workshop

121. 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

122. They watched the train _____ into the distance.

- v.* to cease to exist or be visible

123. They used a special receiver to _____ police radio channels.

- v.* to observe, check, and track the progress or quality of something over a period of time

124. The Industrial Revolution is often considered an _____ in human history.

- n.* a particular period of time, usually marked by significant events or developments; a division of geologic time

125. The _____ rumor turned out to be false.

- adj.* not clearly expressed or understood

ANSWERS: 118. toast, 119. hydrolyze, 120. homemade, 121. reversed, 122. disappear, 123. monitor, 124. epoch, 125. vague

ANSWERS: