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Vocabulary Builder Reference from...

Dan Reinstein: How does laser eye surgery work? | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

span

n. the entire length of something, such as time or space from beginning to end; the amount of space that something covers

synonym : interval, period, length

(1) the **span** of a bird's wings, (2) the average life **span**
He slightly modified the **span** of training because it was just before a match.

ophthalmology

n. the branch of medicine that deals with the anatomy, physiology, and diseases of the eye

synonym : eye care, optometry, eye medicine

(1) **ophthalmology** practice, (2) **ophthalmology** clinic
My grandfather had a problem with his eyes and went to an **ophthalmology** specialist.

blur

n. a faint or indistinct image or sound; something that is not clear or distinct; (verb) to become unclear; to lose clear vision

synonym : smudge, smear, fuzz

(1) **blur** image, (2) motion **blur**

The camera's focus was off, and the image was a **blur** of colors and shapes.

vision

n. the ability to think about or see the future with imagination and intelligence; the faculty of being able to see

synonym : sight, image, concept

(1) a prodigious **vision**, (2) telescopic **vision**

Driving is difficult for me because of my poor **vision**.

rely

v. to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.

synonym : depend, count, lean

(1) **rely** on convenience stores, (2) **rely** entirely on him

Babies heavily **rely** on others for food.

external

adj. belonging to or situated outside of someone or something

synonym : outside, exterior, foreign

(1) **external** factors, (2) **external** commerce

When a company discloses information to the market, an **external** auditor verifies them.

aid

n. things sent to help countries in need, notably food or money; support

synonym : helper, resource, assistance

(1) financial **aid**, (2) country-by-country **aid** programs

Pakistan's **aid** budget was still being reviewed.

surgery

n. medical treatment of injuries or diseases involving an incision with instruments and often removing or replacing some parts of the body; the branch of medical science that treats disease or injury by operative procedures

synonym : operation, (medical) procedure

(1) cardiac **surgery**, (2) the professor of **surgery**

He had undergone heart **surgery** years before.

eventually

adv. finally, particularly after a long time or a lot of struggle, complications, and so on

synonym : finally, someday, ultimately

(1) **eventually** become obsolete, (2) **eventually** succeed

The corporation **eventually** dominated the entire tobacco business.

devise

v. to come up with an idea, plan, theory, etc., using your intelligence or imagination

synonym : create, concoct, invent

(1) **devise** a plan, (2) **devise** a literary plot

They had to **devise** a system that did not depend on fossil fuels.

faint

adj. not strong, clear, or vigorous; slight or weak

synonym : slight, vague, soft

(1) **faint** memory, (2) **faint** aroma of roses

She heard a **faint**, nearly invisible scream.

slice

n. a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting

synonym : piece, portion, slit

(1) a **slice** of the company's revenue, (2) **slice** a tomato thin

The children complained because one **slice** of cake was slightly larger than the other.

patient

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

synonym : client, recipient, subject

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

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

cornea

n. the transparent layer at the front of the eye that covers the iris and pupil and helps to focus light onto the retina

synonym : eye membrane, eye lens

(1) **cornea** transplant, (2) **cornea** damage

A scratched **cornea** can be very painful and may cause blurry vision.

dunk

v. to immerse or submerge briefly in a liquid, often repeatedly to coat or moisten; to slam or force something down into a container of liquid

synonym : dip, plunge, soak

(1) **dunk** in water, (2) **dunk** a basketball

I like to **dunk** my cookies in milk before eating them.

liquid

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

synonym : fluid

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

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

nitrogen

n. a chemical element with the symbol N and atomic number 7, which is a highly reactive element that forms part of many compounds, including amino acids and proteins

(1) heavy **nitrogen**, (2) **nitrogen** absorption

Nitrogen gas is used to inflate car tires because it does not react with rubber.

miniature

adj. being on a very small scale

synonym : mini, scaled-down, pint-sized

(1) **miniature** camera, (2) **miniature** version

He did complicated pen-and-ink drawings like medieval **miniatures**.

lathe

n. a machine tool that rotates a workpiece on its axis to perform various operations, such as cutting, drilling, or sanding

synonym : turning machine, spinner, rotary tool

(1) **lathe** operator, (2) engine **lathe**

The metal **lathe** was an essential piece of machinery in the fabrication workshop.

precise

adj. sharply exact or accurate or delimited

synonym : accurate, exact, distinct

(1) **precise** analyses, (2) estimate **precise** costs

The content is **precise** and informative for me.

thaw

v. to become less rigid or hostile; to melt, soften, or become more friendly

synonym : melt, defrost, unfreeze

(1) **thaw** out a glacier, (2) **thaw** relations between countries

The sun was beginning to **thaw** the frozen ground.

disk

n. a flat, circular plate, typically made of metal, glass, or plastic, used for storing data or playing music

synonym : record, platter, plate

(1) **disk** drive, (2) **disk** space

The computer's hard **disk** was full, so she had to delete some files.

sew

v. to join, fasten, or repair two pieces of something by putting the thread through them with a needle

synonym : stitch, darn, tailor

(1) **sew** with thread, (2) **sew** a button

My mother taught me how to **sew**.

procedure

n. a way of doing something, especially the official or well-known way

synonym : action, approach, course

(1) undergo a surgical **procedure**, (2) standard **procedure**

The pilot and flight attendant ran through the check-out **procedure**.

keratomileusis

n. a type of eye surgery used to correct errors of refraction in the eye, such as myopia, hyperopia, and astigmatism, which involves reshaping the cornea (= the clear front

part of the eye) to improve how light is focused onto the retina

synonym : corneal reshaping

(1) laser-assisted **keratomileusis**, (2) **keratomileusis** recovery

The optometrist recommended in situ **keratomileusis** as the best option for her.

carving

n. the act or process of cutting or shaping a hard material, such as wood or stone, into a specific form or design

synonym : sculpture, engraving, sculpture

(1) a wood **carving**, (2) **carving** instrument

The intricate **carving** on the wooden box was the work of a master craftsman.

grisly

adj. causing horror or disgust because of being connected with death or injury or having a raw or savage quality

synonym : gruesome, horrific, ghastly

(1) **grisly** death, (2) **grisly** details

The **grisly** scene of the crime horrified the witnesses.

technique

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

synonym : approach, procedure, strategy

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

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

reliable

adj. worthy of being relied on; trustworthy

synonym : dependable, trustworthy, dedicated

(1) **reliable** access, (2) guarantee **reliable** delivery

Trains are **reliable**, inexpensive, and ideal for long-distance travel.

refract

v. to bend or alter the direction of light, sound, or particles as they pass through different substances or mediums;

to cause something to appear distorted or altered

synonym : bend, deflect, distort

(1) **refract** light, (2) **refract** sound

The morning sun **refracted** off the dew on the grass, creating a beautiful rainbow.

imperfectly

adv. in a faulty or incomplete way

synonym : amiss, insufficiently, clumsily

(1) **imperfectly** developed, (2) **imperfectly** known disease

He created an **imperfectly** shaped torso.

lens

n. a transparent optical device with curved sides, used in an optical instrument that makes objects seem larger, smaller, clearer, etc.; (metaphor) the basic thoughts or mindsets through which someone sees or understands the environment or situation

synonym : glass

(1) a convex **lens**, (2) a **lens** with a wide angle

The photographer took this photo using a telephoto **lens**.

retina

n. the innermost light-sensitive membrane covering the back wall of the eyeball

(1) **retinal** cells, (2) **retina** scanner

Damage to the **retina** may play a role in the development of glaucoma.

impair

v. to damage something or make it weaker or worse

synonym : degrade, mar, deface

(1) **impair** my health, (2) **impair** insulin sensitivity

The accident made his vision **impaired**.

myopic

adj. near-sighted; lacking foresight or ability to plan; narrow-minded or lacking in perspective

synonym : nearsighted, short-sighted, unforesightful

(1) **myopic** vision, (2) **myopic** thinking

His **myopic** view of the situation prevented him from seeing

the bigger picture.

short-sighted

adj. lacking foresight or consideration for future consequences; not planning or preparing adequately for something that will happen in the future

synonym : short-term, myopic, nearsighted

(1) **short-sighted** decision, (2) **short-sighted** politician
His **short-sighted** approach to the situation cost him more in the long run.

steep

adj. having a sharp inclination or slope

synonym : sheer, precipitous, abrupt

(1) a **steep** staircase, (2) **steep** discount

The **steep** cliff made it difficult to climb.

hyperopia

n. (also known as "farsightedness") a vision condition in which distant objects appear clearer than nearby objects

synonym : farsightedness, hypermetropia

(1) **hyperopia** correction, (2) **hyperopia** surgery

Severe **hyperopia** may require laser surgery to correct the vision.

far-sighted

adj. having a long-range or shrewd foresight, often used to describe a person who can plan or anticipate events and outcomes over a long period of time; able to see distant objects clearly, but not focusing well on close objects

synonym : prescient, foresighted, visionary

(1) **far-sighted** vision, (2) **far-sighted** entrepreneur

A **far-sighted** investment in renewable energy is essential for a sustainable future.

opposition

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

synonym : resistance, hostility, antagonism

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

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

astigmatism

n. a condition in which the lens of the eye or the cornea is not perfectly curved, causing blurred or distorted vision

synonym : blur, distortion, visual impairment

(1) the patient with moderate **astigmatism**, (2) **astigmatism** glasses

Astigmatism correction was performed as part of the refractive surgery.

curvature

n. the degree to which a line or surface deviates from being straight or flat; a measure of the amount of bending of a curve

synonym : bend, arch, bow

(1) the degree of **curvature**, (2) spinal **curvature**

The **curvature** of the earth can be seen from space.

distance

n. the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance

synonym : space, gap, span

(1) driving **distance**, (2) social **distance**

The marathon runner covered a long **distance** in a short amount of time.

suffer

v. to experience pain, distress, or hardship; to undergo or endure something painful or unpleasant

synonym : endure, undergo, tolerate

(1) **suffer** a setback, (2) **suffer** bad grades

The older man **suffers** from arthritis and finds it difficult to move around.

presbyopia

n. a visual impairment that occurs with age, in which the lens of the eye loses elasticity and the ability to focus on close objects; farsightedness caused by reduced accommodation power of the eye due to the aging process

synonym : farsightedness, hyperopia, aging eye

(1) **presbyopia** glasses, (2) **presbyopia** surgery
After the age of 40, most people begin to experience **presbyopia**.

protein

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

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

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

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?

compensate

v. to make up for a loss, injury, or inconvenience by giving something of value

synonym: reimburse, pay, recompense

(1) **compensate** a loss, (2) **compensate** for a car accident

The company offered to **compensate** the employees for the overtime they worked.

focal

adj. relating to an important or central point or area; sharp or precise in focus or detail

synonym: central, main, primary

(1) **focal** neurological deficit, (2) **focal** length

The photographer adjusted the camera to focus on the image's **focal** point.

backward

adv. at, to, or toward the direction or place that is behind or rear

synonym: back, rearward, in reverse

(1) walk **backward**, (2) **backward** angle

She falls over **backward** when she sees her mother-in-law.

divide

v. to separate or cause to separate into parts or groups
synonym : separate, disconnect, split

(1) **divide** the cake into two pieces, (2) **divide** money equally

Can you **divide** 123321 by eleven?

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.

surgeon

n. a doctor who is trained to perform medical operations that involve cutting open a person's body

synonym : sawbones, doctor

(1) an excellent brain **surgeon**, (2) army **surgeon**

He is a skilled **surgeon** that has many years of training and experience.

sculpt

v. to create a work of art by carving, casting, or other shaping techniques

synonym : carve, mold, shape

(1) **sculpt** an image, (2) **sculpt** prototype

He spent hours every day **sculpting** figures out of clay.

invasive

adj. spreading very quickly, and often aggressively, and difficult to stop

synonym : aggressive, rampant, spreading

(1) **invasive** breast cancer, (2) **invasive** species

The **invasive** disease can spread quickly and potentially cause a global pandemic.

laser

n. a device that emits powerful and narrow light that can be used as a tool to cut metal through a process of optical amplification

synonym : beam, bar, ray

(1) **laser** printer, (2) pulse **laser**

The company holds patents on core components of **laser** jet printers.

excimer

n. a type of molecule that is formed through the combination of an excited atom or molecule with a ground-state atom or molecule, often used in medical and scientific applications, such as lasers and fluorescent dyes

(1) **excimer** molecule, (2) **excimer** formation

Doctors use **excimer** lasers to treat certain eye conditions.

accurate

adj. correct and exact in all details

synonym: exact, precise, proper

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

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

etch

v. to carve, cut, or engrave (a design or text) into a hard surface; to corrode, erode or eat away at a metal surface using acid or another chemical substance to create a design or pattern

synonym: engrave, inscribe, carve

(1) **etch** a metal plate, (2) **etch** a design into wood

He used a sharp tool to **etch** his initials onto the metal.

accomplish

v. to finish or achieve something successfully

synonym: achieve, complete, execute

(1) **accomplish** a goal, (2) **accomplish** military operations

Humankind took centuries to **accomplish** true democracy.

incision

n. a sharp cut made in something with a sharp tool, especially during a medical procedure

synonym: cut, slit, laceration

(1) **incision** tool, (2) small **incision**

Patients undergoing **incisional** surgery are often put to sleep by anesthesia.

essentially

adv. relating to the essential features or concepts of anything
synonym : fundamentally, basically, virtually

(1) **essentially** correct, (2) become **essentially** same
Essentially, a society is an organism.

evaporate

v. to turn a liquid into a gas; to become less intense and disappear gradually

synonym : vaporize, disappear, vanish

(1) **evaporate** the water, (2) **evaporate** almost overnight
The sun will **evaporate** the mist.

organic

adj. of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals

synonym : biological

(1) **organic** soils, (2) eat **organic** food

The kidney is an **organic** component of the body.

tissue

n. an ensemble of similar cells of the animal or plant that together carry out a specific function

synonym : structure, texture, anatomy

(1) a facial **tissue**, (2) loss of muscle **tissue**

The researcher separated the nervous **tissue** for microscopic examinations.

overheat

v. to become too hot, or to cause something to become too hot

synonym : become too hot, heat up too much

(1) **overheat** while charging, (2) starts to **overheat**

The car engine **overheated** and had to be repaired.

surrounding

adj. that is near or around, or closely encircling something

synonym : circumferent, encircling, neighboring

(1) **surrounding** areas, (2) a fence **surrounding** a castle

The **surrounding** mountains make the city difficult to be invaded.

separate

v. to force, take, or pull apart; mark as different

synonym: disunite, isolate, ramify

(1) **separate** video into chapter, (2) **separate** cream from milk

We need to **separate** the aspect of his personality from the part of his competence when making an investment decision.

blade

n. the flat part of a knife, weapon, or machine with a very thin edge used for cutting

synonym: knife, sword, cutter

(1) a **blade** of grass, (2) the **blade** of a turbine

The **blade** of the katana itself is still in excellent condition.

femtosecond

n. a unit of time that is equal to one quadrillionth of a second (10^{-15} seconds), and femtosecond lasers are used in surgery and other medical applications

synonym: ten-to-the-minus-fifteenth, quadrillionth of a second

(1) **femtosecond** time scale, (2) **femtosecond** technology

Femtosecond lasers are used in various medical procedures, including eye surgeries.

plasma

n. (biology) the yellow-colored liquid component of blood, in which blood cells are suspended; (physics) one of the four fundamental states of matter consisting of positive ions and free electrons

(1) **plasma** membrane, (2) high-temperature **plasma**

Blood **plasma** makes up about half of the volume of blood.

bubble

n. a thin, round, and often transparent mass of gas that is surrounded by a thin layer of liquid; a state of economic or social prosperity that is unsustainable and eventually collapses

synonym: blob, balloon, mania

(1) **bubble** in the champagne glass, (2) economic **bubble**

Many people worry that the current real estate market is a **bubble** that could burst soon.

beneath

adv. in or to a lower place than someone or something

synonym : down, under, low

(1) the ground **beneath** my feet, (2) **beneath** contempt

A great stretch of the lake lay **beneath** them.

lift

v. to raise something to a higher position or level; to pick up something or somebody and move them to a different position

synonym : raise, elevate, move up

(1) **lift** sagging skin, (2) **lift** a ban on alcohol

The drought **lifted** the prices of grain globally.

flap

n. a piece of material attached to a garment, sail, or aircraft which flaps in the wind; (verb) to move in a wavy pattern or with an up-and-down motion

synonym : winged object, cover, (verb) flutter

(1) the **flap** of wings, (2) **flap** out a candle

The **flap** of the tent was open, letting in the fresh air.

expose

v. to show something by uncovering it; to make something accessible to some action or influence

synonym : disclose, reveal, uncover

(1) **expose** a crime, (2) **expose** a person to risks

That newspaper **exposed** a political scandal in a big way.

exposed

adj. having no protection or shield from something, such as bad weather, attack, or criticism

synonym : endangered, revealed, disclosed

(1) **exposed** to radiation, (2) an **exposed** rock

Tech companies often employ **exposed** ducts and other materials in their office interiors.

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.

fin

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

synonym: flipper, appendage, stabilizer

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

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

seal

v. to close or fasten an envelope, etc. securely; (noun) a large marine mammal that chiefly lives in cold regions and comes on shore to breed

synonym: enclose, shut, close

(1) **seal** a hole, (2) a fur **seal**

He **sealed** the letter with hot wax.

eyeball

n. the round part of the eye of a vertebrate that is usually inside the head and, therefore, cannot be seen

(1) **eyeball** motion, (2) redness of the **eyeball**

Increased **eyeball** pressure leads to the development of glaucoma.

situ

adj. short for "situated," meaning located or placed in a particular position or circumstance

synonym: situational, contextual, circumstantial

(1) ex- **situ** conservation, (2) in- **situ** control

Melanoma in **situ** is considered the earliest stage of melanoma and has a high cure rate with appropriate treatment.

carve

v. to create something by cutting wood or stone; to turn sharply

synonym: sculpt, engrave, cut

(1) **carve** a statue, (2) **carve** my name on the plate

This statue is **carved** from a single tree trunk.

prescription

n. a written or spoken instruction that directs a medical practitioner to prescribe a specific treatment or medication for a patient

synonym: directive, instruction, order

(1) **prescription** drugs, (2) fill the **prescription**

I need to refill my **prescription** for allergy medication at the pharmacy.

slightly

adv. in a small degree or extent; a little

synonym: barely, narrowly, scarcely

(1) increase **slightly**, (2) **slightly** alkaline soils

He moved his body **slightly** to the left.

damage

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

synonym: harm, impair, injure

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

During the surgery, the doctor had to be extremely cautious not to **damage** a blood vessel.

disposable

adj. designed to be used once and then thrown away

synonym: throwaway, single-use, expendable

(1) total **disposable** income, (2) **disposable** camera

I prefer using **disposable** razors because they are more convenient.

recover

v. to return to a former condition, health, mind, or strength

synonym: come back, convalesce, heal

(1) **recover** a loss, (2) **recover** approval ratings

She is still **recovering** from a shot to her shoulder.

adjust

v. to make a minor modification to something to make it more suited for a new set of conditions or to make it function better.

synonym : adapt, alter, acclimate

(1) **adjust** a schedule, (2) **adjust** the rearview mirror

You have to **adjust** your content to the age of the audience.

merge

v. to combine or integrate things, or to cause this to happen

synonym : combine, join, coalesce

(1) **merge** into a new party, (2) **merge** those systems into a new one

This consulting firm decided to **merge** the two companies into one.

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.

Session 2: Spelling

- | | |
|--|---|
| 1. se____te video into chapter | <i>v.</i> to force, take, or pull apart; mark as different |
| 2. the patient with moderate ast____sm | <i>n.</i> a condition in which the lens of the eye or the cornea is not perfectly curved, causing blurred or distorted vision |
| 3. co____a transplant | <i>n.</i> the transparent layer at the front of the eye that covers the iris and pupil and helps to focus light onto the retina |
| 4. de____e a plan | <i>v.</i> to come up with an idea, plan, theory, etc., using your intelligence or imagination |
| 5. ov____at while charging | <i>v.</i> to become too hot, or to cause something to become too hot |
| 6. colorless li____d | <i>n.</i> a substance, such as water or oil that flows freely and is neither a solid nor a gas |
| 7. be____h contempt | <i>adv.</i> in or to a lower place than someone or something |
| 8. fill the pre____ion | <i>n.</i> a written or spoken instruction that directs a medical practitioner to prescribe a specific treatment or medication for a patient |
| 9. the average life s__n | <i>n.</i> the entire length of something, such as time or space from beginning to end; the amount of space that something covers |

ANSWERS: 1. separate, 2. astigmatism, 3. cornea, 4. devise, 5. overheat, 6. liquid, 7. beneath, 8. prescription, 9. span

10. a facial ti___e *n.* an ensemble of similar cells of the animal or plant that together carry out a specific function
11. pr_____n synthesis *n.* a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues
12. a bl__e of grass *n.* the flat part of a knife, weapon, or machine with a very thin edge used for cutting
13. s_w with thread *v.* to join, fasten, or repair two pieces of something by putting the thread through them with a needle
14. mi_____re camera *adj.* being on a very small scale
15. mi_____re version *adj.* being on a very small scale
16. t__w relations between countries *v.* to become less rigid or hostile; to melt, soften, or become more friendly
17. driving di_____ce *n.* the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance
18. ey_____l motion *n.* the round part of the eye of a vertebrate that is usually inside the head and, therefore, cannot be seen
19. su___r a setback *v.* to experience pain, distress, or hardship; to undergo or endure something painful or unpleasant

ANSWERS: 10. tissue, 11. protein, 12. blade, 13. sew, 14. miniature, 15. miniature, 16. thaw, 17. distance, 18. eyeball, 19. suffer

20. ad___t the rearview mirror *v.* to make a minor modification to something to make it more suited for a new set of conditions or to make it function better.
21. 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
22. a fur s__l *v.* to close or fasten an envelope, etc. securely; (noun) a large marine mammal that chiefly lives in cold regions and comes on shore to breed
23. fo__l length *adj.* relating to an important or central point or area; sharp or precise in focus or detail
24. an ex_____d rock *adj.* having no protection or shield from something, such as bad weather, attack, or criticism
25. laser-assisted ker_____sis *n.* a type of eye surgery used to correct errors of refraction in the eye, such as myopia, hyperopia, and astigmatism, which involves reshaping the cornea (= the clear front part of the eye) to improve how light is focused onto the retina
26. su___r bad grades *v.* to experience pain, distress, or hardship; to undergo or endure something painful or unpleasant

ANSWERS: 20. adjust, 21. process, 22. seal, 23. focal, 24. exposed, 25. keratomileusis, 26. suffer

37. f__p out a candle *n.* a piece of material attached to a garment, sail, or aircraft which flaps in the wind; (verb) to move in a wavy pattern or with an up-and-down motion
38. sho_____ted decision *adj.* lacking foresight or consideration for future consequences; not planning or preparing adequately for something that will happen in the future
39. ex_____al commerce *adj.* belonging to or situated outside of someone or something
40. a convex l__s *n.* a transparent optical device with curved sides, used in an optical instrument that makes objects seem larger, smaller, clearer, etc.; (metaphor) the basic thoughts or mindsets through which someone sees or understands the environment or situation
41. the f__p of wings *n.* a piece of material attached to a garment, sail, or aircraft which flaps in the wind; (verb) to move in a wavy pattern or with an up-and-down motion
42. small in_____on *n.* a sharp cut made in something with a sharp tool, especially during a medical procedure
43. cardiac su_____y *n.* medical treatment of injuries or diseases involving an incision with instruments and often removing or replacing some parts of the body; the branch of medical science that treats disease or injury by operative procedures

ANSWERS: 37. flap, 38. short-sighted, 39. external, 40. lens, 41. flap, 42. incision, 43. surgery

44. army su____n *n.* a doctor who is trained to perform medical operations that involve cutting open a person's body
45. a wood ca____g *n.* the act or process of cutting or shaping a hard material, such as wood or stone, into a specific form or design
46. hy____ia surgery *n.* (also known as "farsightedness") a vision condition in which distant objects appear clearer than nearby objects
47. d__k in water *v.* to immerse or submerge briefly in a liquid, often repeatedly to coat or moisten; to slam or force something down into a container of liquid
48. da____e a relationship *v.* to harm or cause injury to something or someone, often resulting in decreased value or functionality; to impair or negatively affect something, such as a reputation or relationship; (noun) harm or injury that is caused to a person, thing, or entity
49. sho____ted politician *adj.* lacking foresight or consideration for future consequences; not planning or preparing adequately for something that will happen in the future
50. telescopic vi____n *n.* the ability to think about or see the future with imagination and intelligence; the faculty of being able to see
51. standard pr____re *n.* a way of doing something, especially the official or well-known way
52. re____t sound *v.* to bend or alter the direction of light, sound, or particles as they pass through different substances or mediums; to cause something to appear distorted or altered

ANSWERS: 44. surgeon, 45. carving, 46. hyperopia, 47. dunk, 48. damage, 49. short-sighted, 50. vision, 51. procedure, 52. refract

53. com_____te for a car accident *v.* to make up for a loss, injury, or inconvenience by giving something of value
54. ex_____r molecule *n.* a type of molecule that is formed through the combination of an excited atom or molecule with a ground-state atom or molecule, often used in medical and scientific applications, such as lasers and fluorescent dyes
55. ex_____al factors *adj.* belonging to or situated outside of someone or something
56. a st__p staircase *adj.* having a sharp inclination or slope
57. di___e money equally *v.* to separate or cause to separate into parts or groups
58. ni_____en absorption *n.* a chemical element with the symbol N and atomic number 7, which is a highly reactive element that forms part of many compounds, including amino acids and proteins
59. in-s__u control *adj.* short for "situated," meaning located or placed in a particular position or circumstance
60. la__r printer *n.* a device that emits powerful and narrow light that can be used as a tool to cut metal through a process of optical amplification
61. the te_____ue applied to construction *n.* a particular way or art of doing something that needs skill
62. di___e the cake into two pieces *v.* to separate or cause to separate into parts or groups

ANSWERS: 53. compensate, 54. excimer, 55. external, 56. steep, 57. divide, 58. nitrogen, 59. situ, 60. laser, 61. technique, 62. divide

63. ess_____ly correct *adv.* relating to the essential features or concepts of anything
64. an excellent brain su_____n *n.* a doctor who is trained to perform medical operations that involve cutting open a person's body
65. a te_____ue in martial arts *n.* a particular way or art of doing something that needs skill
66. ast_____sm glasses *n.* a condition in which the lens of the eye or the cornea is not perfectly curved, causing blurred or distorted vision
67. heavy ni_____en *n.* a chemical element with the symbol N and atomic number 7, which is a highly reactive element that forms part of many compounds, including amino acids and proteins
68. e__h a metal plate *v.* to carve, cut, or engrave (a design or text) into a hard surface; to corrode, erode or eat away at a metal surface using acid or another chemical substance to create a design or pattern
69. gr___y details *adj.* causing horror or disgust because of being connected with death or injury or having a raw or savage quality
70. ev_____te the water *v.* to turn a liquid into a gas; to become less intense and disappear gradually
71. ker_____sis recovery *n.* a type of eye surgery used to correct errors of refraction in the eye, such as myopia, hyperopia, and astigmatism, which involves reshaping the cornea (= the clear front part of the eye) to improve how light is focused onto the retina

ANSWERS: 63. essentially, 64. surgeon, 65. technique, 66. astigmatism, 67. nitrogen, 68. etch, 69. grisly, 70. evaporate, 71. keratomileusis

72. ad____e a cooperative relationship *v.* to go or move forward; to develop in a positive way
73. sl__e a tomato thin *n.* a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting
74. economic bu____e *n.* a thin, round, and often transparent mass of gas that is surrounded by a thin layer of liquid; a state of economic or social prosperity that is unsustainable and eventually collapses
75. d__k a basketball *v.* to immerse or submerge briefly in a liquid, often repeatedly to coat or moisten; to slam or force something down into a container of liquid
76. social di____ce *n.* the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance
77. ca__e a statue *v.* to create something by cutting wood or stone; to turn sharply
78. the ground be____h my feet *adv.* in or to a lower place than someone or something
79. eve____ly succeed *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
80. ca__e my name on the plate *v.* to create something by cutting wood or stone; to turn sharply
81. pre____ion drugs *n.* a written or spoken instruction that directs a medical practitioner to prescribe a specific treatment or medication for a patient

ANSWERS: 72. advance, 73. slice, 74. bubble, 75. dunk, 76. distance, 77. carve, 78. beneath, 79. eventually, 80. carve, 81. prescription

82. motion b__r *n.* a faint or indistinct image or sound; something that is not clear or distinct; (verb) to become unclear; to lose clear vision
83. spinal cu_____re *n.* the degree to which a line or surface deviates from being straight or flat; a measure of the amount of bending of a curve
84. a prodigious vi___n *n.* the ability to think about or see the future with imagination and intelligence; the faculty of being able to see
85. re_____t light *v.* to bend or alter the direction of light, sound, or particles as they pass through different substances or mediums; to cause something to appear distorted or altered
86. oph_____ogy clinic *n.* the branch of medicine that deals with the anatomy, physiology, and diseases of the eye
87. become ess_____ly same *adv.* relating to the essential features or concepts of anything
88. im___r insulin sensitivity *v.* to damage something or make it weaker or worse
89. eat or_____c food *adj.* of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals
90. fem_____nd technology *n.* a unit of time that is equal to one quadrillionth of a second (10^{-15} seconds), and femtosecond lasers are used in surgery and other medical applications

ANSWERS: 82. blur, 83. curvature, 84. vision, 85. refract, 86. ophthalmology, 87. essentially, 88. impair, 89. organic, 90. femtosecond

91. hazardous li___d *n.* a substance, such as water or oil that flows freely and is neither a solid nor a gas
92. co___a damage *n.* the transparent layer at the front of the eye that covers the iris and pupil and helps to focus light onto the retina
93. ad_____e the technology *v.* to go or move forward; to develop in a positive way
94. or_____c soils *adj.* of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals
95. eve_____ly become obsolete *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
96. t__w out a glacier *v.* to become less rigid or hostile; to melt, soften, or become more friendly
97. the professor of su_____y *n.* medical treatment of injuries or diseases involving an incision with instruments and often removing or replacing some parts of the body; the branch of medical science that treats disease or injury by operative procedures
98. e__h a design into wood *v.* to carve, cut, or engrave (a design or text) into a hard surface; to corrode, erode or eat away at a metal surface using acid or another chemical substance to create a design or pattern
99. re_____r a loss *v.* to return to a former condition, health, mind, or strength

ANSWERS: 91. liquid, 92. cornea, 93. advance, 94. organic, 95. eventually, 96. thaw, 97. surgery, 98. etch, 99. recover

100. ad___t a schedule *v.* to make a minor modification to something to make it more suited for a new set of conditions or to make it function better.
101. me__e into a new party *v.* to combine or integrate things, or to cause this to happen
102. d__k space *n.* a flat, circular plate, typically made of metal, glass, or plastic, used for storing data or playing music
103. estimate pr_____e costs *adj.* sharply exact or accurate or delimited
104. re___al cells *n.* the innermost light-sensitive membrane covering the back wall of the eyeball
105. st__p discount *adj.* having a sharp inclination or slope
106. in_____ve species *adj.* spreading very quickly, and often aggressively, and difficult to stop
107. provide ac_____te information *adj.* correct and exact in all details
108. in_____ve breast cancer *adj.* spreading very quickly, and often aggressively, and difficult to stop
109. ba_____rd angle *adv.* at, to, or toward the direction or place that is behind or rear
110. pre_____ia surgery *n.* a visual impairment that occurs with age, in which the lens of the eye loses elasticity and the ability to focus on close objects; farsightedness caused by reduced accommodation power of the eye due to the aging process
111. ex_____d to radiation *adj.* having no protection or shield from something, such as bad weather, attack, or criticism

ANSWERS: 100. adjust, 101. merge, 102. disk, 103. precise, 104. retina, 105. steep, 106. invasive, 107. accurate, 108. invasive, 109. backward, 110. presbyopia, 111. exposed

112. 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
113. re___a scanner *n.* the innermost light-sensitive membrane covering the back wall of the eyeball
114. s__l a hole *v.* to close or fasten an envelope, etc. securely; (noun) a large marine mammal that chiefly lives in cold regions and comes on shore to breed
115. starts to ov_____at *v.* to become too hot, or to cause something to become too hot
116. the s__n of a bird's wings *n.* the entire length of something, such as time or space from beginning to end; the amount of space that something covers
117. the bl__e of a turbine *n.* the flat part of a knife, weapon, or machine with a very thin edge used for cutting
118. sur_____ng areas *adj.* that is near or around, or closely encircling something
119. total dis_____le income *adj.* designed to be used once and then thrown away
120. me__e those systems into a new one *v.* to combine or integrate things, or to cause this to happen

ANSWERS: 112. process, 113. retina, 114. seal, 115. overheat, 116. span, 117. blade, 118. surrounding, 119. disposable, 120. merge

121. da___e assessment *v.* to harm or cause injury to something or someone, often resulting in decreased value or functionality; to impair or negatively affect something, such as a reputation or relationship; (noun) harm or injury that is caused to a person, thing, or entity
122. meet with opp_____on *n.* the act of disagreeing or resisting; the state of strong disagreement
123. ac_____te measurements *adj.* correct and exact in all details
124. re_____le access *adj.* worthy of being relied on; trustworthy
125. acc_____sh a goal *v.* to finish or achieve something successfully
126. se_____te cream from milk *v.* to force, take, or pull apart; mark as different
127. ev_____te almost overnight *v.* to turn a liquid into a gas; to become less intense and disappear gradually
128. hy_____ia correction *n.* (also known as "farsightedness") a vision condition in which distant objects appear clearer than nearby objects
129. undergo a surgical pr_____re *n.* a way of doing something, especially the official or well-known way
130. far_____ed vision *adj.* having a long-range or shrewd foresight, often used to describe a person who can plan or anticipate events and outcomes over a long period of time; able to see distant objects clearly, but not focusing well on close objects

ANSWERS: 121. damage, 122. opposition, 123. accurate, 124. reliable, 125. accomplish, 126. separate, 127. evaporate, 128. hyperopia, 129. procedure, 130. far-sighted

131. sc___t an image *v.* to create a work of art by carving, casting, or other shaping techniques
132. fem_____nd time scale *n.* a unit of time that is equal to one quadrillionth of a second (10^{-15} seconds), and femtosecond lasers are used in surgery and other medical applications
133. country-by-country a_d programs *n.* things sent to help countries in need, notably food or money; support
134. l__t sagging skin *v.* to raise something to a higher position or level; to pick up something or somebody and move them to a different position
135. a f_n of a plane *n.* a thin flat part on the body of a fish or other aquatic animal used for propulsion or balance
136. pulse la__r *n.* a device that emits powerful and narrow light that can be used as a tool to cut metal through a process of optical amplification
137. fa__t memory *adj.* not strong, clear, or vigorous; slight or weak
138. pl___a membrane *n.* (biology) the yellow-colored liquid component of blood, in which blood cells are suspended; (physics) one of the four fundamental states of matter consisting of positive ions and free electrons
139. la__e operator *n.* a machine tool that rotates a workpiece on its axis to perform various operations, such as cutting, drilling, or sanding

ANSWERS: 131. sculpt, 132. femtosecond, 133. aid, 134. lift, 135. fin, 136. laser, 137. faint, 138. plasma, 139. lathe

140. high-temperature pl___a *n.* (biology) the yellow-colored liquid component of blood, in which blood cells are suspended; (physics) one of the four fundamental states of matter consisting of positive ions and free electrons
141. imp_____ly developed *adv.* in a faulty or incomplete way
142. pa_____t in the hospital *n.* a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic
143. financial a_d *n.* things sent to help countries in need, notably food or money; support
144. fo__l neurological deficit *adj.* relating to an important or central point or area; sharp or precise in focus or detail
145. loss of muscle ti___e *n.* an ensemble of similar cells of the animal or plant that together carry out a specific function
146. l__t a ban on alcohol *v.* to raise something to a higher position or level; to pick up something or somebody and move them to a different position
147. b__r image *n.* a faint or indistinct image or sound; something that is not clear or distinct; (verb) to become unclear; to lose clear vision
148. ex_____r formation *n.* a type of molecule that is formed through the combination of an excited atom or molecule with a ground-state atom or molecule, often used in medical and scientific applications, such as lasers and fluorescent dyes

ANSWERS: 140. plasma, 141. imperfectly, 142. patient, 143. aid, 144. focal, 145. tissue, 146. lift, 147. blur, 148. excimer

149. imp_____ly known disease *adv.* in a faulty or incomplete way
150. a l__s with a wide angle *n.* a transparent optical device with curved sides, used in an optical instrument that makes objects seem larger, smaller, clearer, etc.; (metaphor) the basic thoughts or mindsets through which someone sees or understands the environment or situation
151. sc___t prototype *v.* to create a work of art by carving, casting, or other shaping techniques
152. a sl__e of the company's revenue *n.* a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting
153. ca_____g instrument *n.* the act or process of cutting or shaping a hard material, such as wood or stone, into a specific form or design
154. de___e a literary plot *v.* to come up with an idea, plan, theory, etc., using your intelligence or imagination
155. ex___e a crime *v.* to show something by uncovering it; to make something accessible to some action or influence
156. major paradigm sh__t *n.* a slight transition in position, direction, or trend
157. back f_n *n.* a thin flat part on the body of a fish or other aquatic animal used for propulsion or balance
158. acc_____sh military operations *v.* to finish or achieve something successfully

ANSWERS: 149. imperfectly, 150. lens, 151. sculpt, 152. slice, 153. carving, 154. devise, 155. expose, 156. shift, 157. fin, 158. accomplish

159. ex___e a person to risks *v.* to show something by uncovering it; to make something accessible to some action or influence
160. engine la___e *n.* a machine tool that rotates a workpiece on its axis to perform various operations, such as cutting, drilling, or sanding
161. pre-mo___n agricultural society *adj.* of or belonging to the present time or recent times
162. in_____on tool *n.* a sharp cut made in something with a sharp tool, especially during a medical procedure
163. pr_____e analyses *adj.* sharply exact or accurate or delimited
164. walk ba_____rd *adv.* at, to, or toward the direction or place that is behind or rear
165. far_____ed entrepreneur *adj.* having a long-range or shrewd foresight, often used to describe a person who can plan or anticipate events and outcomes over a long period of time; able to see distant objects clearly, but not focusing well on close objects
166. bu___e in the champagne glass *n.* a thin, round, and often transparent mass of gas that is surrounded by a thin layer of liquid; a state of economic or social prosperity that is unsustainable and eventually collapses
167. com_____te a loss *v.* to make up for a loss, injury, or inconvenience by giving something of value

ANSWERS: 159. expose, 160. lathe, 161. modern, 162. incision, 163. precise, 164. backward, 165. far-sighted, 166. bubble, 167. compensate

168. stress pr_____n *n.* a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues
169. fa__t aroma of roses *adj.* not strong, clear, or vigorous; slight or weak
170. redness of the ey_____l *n.* the round part of the eye of a vertebrate that is usually inside the head and, therefore, cannot be seen
171. dis_____le camera *adj.* designed to be used once and then thrown away
172. the degree of cu_____re *n.* the degree to which a line or surface deviates from being straight or flat; a measure of the amount of bending of a curve
173. re_____r approval ratings *v.* to return to a former condition, health, mind, or strength
174. pa_____t with weight loss *n.* a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic
175. guarantee re_____le delivery *adj.* worthy of being relied on; trustworthy
176. oph_____ogy practice *n.* the branch of medicine that deals with the anatomy, physiology, and diseases of the eye
177. im____r my health *v.* to damage something or make it weaker or worse
178. my____c thinking *adj.* near-sighted; lacking foresight or ability to plan; narrow-minded or lacking in perspective

ANSWERS: 168. protein, 169. faint, 170. eyeball, 171. disposable, 172. curvature, 173. recover, 174. patient, 175. reliable, 176. ophthalmology, 177. impair, 178. myopic

179. sl____ly alkaline soils *adv.* in a small degree or extent; a little
180. Doppler sh__t *n.* a slight transition in position, direction, or trend
181. d__k drive *n.* a flat, circular plate, typically made of metal, glass, or plastic, used for storing data or playing music
182. r__y on convenience stores *v.* to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.

ANSWERS: 179. slightly, 180. shift, 181. disk, 182. rely

Session 3: Fill in the Blanks

1. He slightly modified the _____ of training because it was just before a match.
n. the entire length of something, such as time or space from beginning to end; the amount of space that something covers
2. The morning sun _____ off the dew on the grass, creating a beautiful rainbow.
v. to bend or alter the direction of light, sound, or particles as they pass through different substances or mediums; to cause something to appear distorted or altered
3. The _____ disease can spread quickly and potentially cause a global pandemic.
adj. spreading very quickly, and often aggressively, and difficult to stop
4. His _____ approach to the situation cost him more in the long run.
adj. lacking foresight or consideration for future consequences; not planning or preparing adequately for something that will happen in the future
5. Jockey's superior _____ brought him victory.
n. a particular way or art of doing something that needs skill
6. The intricate _____ on the wooden box was the work of a master craftsman.
n. the act or process of cutting or shaping a hard material, such as wood or stone, into a specific form or design
7. The _____ of the tent was open, letting in the fresh air.
n. a piece of material attached to a garment, sail, or aircraft which flaps in the wind; (verb) to move in a wavy pattern or with an up-and-down motion

ANSWERS: 1. span, 2. refracted, 3. invasive, 4. short-sighted, 5. technique, 6. carving, 7. flap

8. The photographer adjusted the camera to focus on the image's _____ point.
adj. relating to an important or central point or area; sharp or precise in focus or detail
9. Their headquarters are in a _____ skyscraper.
adj. of or belonging to the present time or recent times
10. Severe _____ may require laser surgery to correct the vision.
n. (also known as "farsightedness") a vision condition in which distant objects appear clearer than nearby objects
11. Many people worry that the current real estate market is a _____ that could burst soon.
n. a thin, round, and often transparent mass of gas that is surrounded by a thin layer of liquid; a state of economic or social prosperity that is unsustainable and eventually collapses
12. During the surgery, the doctor had to be extremely cautious not to _____ a blood vessel.
v. to harm or cause injury to something or someone, often resulting in decreased value or functionality; to impair or negatively affect something, such as a reputation or relationship; (noun) harm or injury that is caused to a person, thing, or entity
13. _____ correction was performed as part of the refractive surgery.
n. a condition in which the lens of the eye or the cornea is not perfectly curved, causing blurred or distorted vision
14. A _____ investment in renewable energy is essential for a sustainable future.
adj. having a long-range or shrewd foresight, often used to describe a person who can plan or anticipate events and outcomes over a long period of time; able to see distant objects clearly, but not focusing well on close objects

ANSWERS: 8. focal, 9. modern, 10. hyperopia, 11. bubble, 12. damage, 13. Astigmatism, 14. far-sighted

15. The older man _____ from arthritis and finds it difficult to move around.
v. to experience pain, distress, or hardship; to undergo or endure something painful or unpleasant
16. That newspaper _____ a political scandal in a big way.
v. to show something by uncovering it; to make something accessible to some action or influence
17. The accident made his vision _____.
v. to damage something or make it weaker or worse
18. The official transcript contains _____ academic records.
adj. correct and exact in all details
19. Can you _____ 123321 by eleven?
v. to separate or cause to separate into parts or groups
20. The company offered to _____ the employees for the overtime they worked.
v. to make up for a loss, injury, or inconvenience by giving something of value
21. The children complained because one _____ of cake was slightly larger than the other.
n. a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting
22. Pakistan's _____ budget was still being reviewed.
n. things sent to help countries in need, notably food or money; support

ANSWERS: 15. suffers, 16. exposed, 17. impaired, 18. accurate, 19. divide, 20. compensate, 21. slice, 22. aid

23. Scientific knowledge will _____ significantly with the power of AI.
v. to go or move forward; to develop in a positive way
24. The company holds patents on core components of _____ jet printers.
n. a device that emits powerful and narrow light that can be used as a tool to cut metal through a process of optical amplification
25. Damage to the _____ may play a role in the development of glaucoma.
n. the innermost light-sensitive membrane covering the back wall of the eyeball
26. A great stretch of the lake lay _____ them.
adv. in or to a lower place than someone or something
27. He moved his body _____ to the left.
adv. in a small degree or extent; a little
28. I like to _____ my cookies in milk before eating them.
v. to immerse or submerge briefly in a liquid, often repeatedly to coat or moisten; to slam or force something down into a container of liquid
29. The kidney is an _____ component of the body.
adj. of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals
30. The researcher separated the nervous _____ for microscopic examinations.
n. an ensemble of similar cells of the animal or plant that together carry out a specific function
31. The car engine _____ and had to be repaired.
v. to become too hot, or to cause something to become too hot

ANSWERS: 23. advance, 24. laser, 25. retina, 26. beneath, 27. slightly, 28. dunk, 29. organic, 30. tissue, 31. overheated

32. The photographer took this photo using a telephoto _____.
- n.* a transparent optical device with curved sides, used in an optical instrument that makes objects seem larger, smaller, clearer, etc.; (metaphor) the basic thoughts or mindsets through which someone sees or understands the environment or situation
33. I prefer using _____ razors because they are more convenient.
- adj.* designed to be used once and then thrown away
34. Doctors use _____ lasers to treat certain eye conditions.
- n.* a type of molecule that is formed through the combination of an excited atom or molecule with a ground-state atom or molecule, often used in medical and scientific applications, such as lasers and fluorescent dyes
35. The camera's focus was off, and the image was a _____ of colors and shapes.
- n.* a faint or indistinct image or sound; something that is not clear or distinct; (verb) to become unclear; to lose clear vision
36. He had undergone heart _____ years before.
- n.* medical treatment of injuries or diseases involving an incision with instruments and often removing or replacing some parts of the body; the branch of medical science that treats disease or injury by operative procedures
37. Babies heavily _____ on others for food.
- v.* to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.
38. A scratched _____ can be very painful and may cause blurry vision.
- n.* the transparent layer at the front of the eye that covers the iris and pupil and helps to focus light onto the retina

ANSWERS: 32. lens, 33. disposable, 34. excimer, 35. blur, 36. surgery, 37. rely, 38. cornea

39. The drought _____ the prices of grain globally.

v. to raise something to a higher position or level; to pick up something or somebody and move them to a different position

40. The _____ scene of the crime horrified the witnesses.

adj. causing horror or disgust because of being connected with death or injury or having a raw or savage quality

41. He did complicated pen-and-ink drawings like medieval _____.

adj. being on a very small scale

42. She heard a _____ nearly invisible scream.

adj. not strong, clear, or vigorous; slight or weak

43. Tech companies often employ _____ ducts and other materials in their office interiors.

adj. having no protection or shield from something, such as bad weather, attack, or criticism

44. _____ a society is an organism.

adv. relating to the essential features or concepts of anything

45. She is still _____ from a shot to her shoulder.

v. to return to a former condition, health, mind, or strength

46. _____ gas is used to inflate car tires because it does not react with rubber.

n. a chemical element with the symbol N and atomic number 7, which is a highly reactive element that forms part of many compounds, including amino acids and proteins

ANSWERS: 39. lifted, 40. grisly, 41. miniatures, 42. faint, 43. exposed, 44. Essentially, 45. recovering, 46. Nitrogen

47. Trains are _____ inexpensive, and ideal for long-distance travel.

adj. worthy of being relied on; trustworthy

48. This consulting firm decided to _____ the two companies into one.

v. to combine or integrate things, or to cause this to happen

49. The computer's hard _____ was full, so she had to delete some files.

n. a flat, circular plate, typically made of metal, glass, or plastic, used for storing data or playing music

50. He created an _____ shaped torso.

adv. in a faulty or incomplete way

51. This statue is _____ from a single tree trunk.

v. to create something by cutting wood or stone; to turn sharply

52. When a company discloses information to the market, an _____ auditor verifies them.

adj. belonging to or situated outside of someone or something

53. The sun was beginning to _____ the frozen ground.

v. to become less rigid or hostile; to melt, soften, or become more friendly

54. The shark's powerful _____ allowed it to swim at high speeds.

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

55. Melanoma in _____ is considered the earliest stage of melanoma and has a high cure rate with appropriate treatment.

adj. short for "situated," meaning located or placed in a particular position or circumstance

ANSWERS: 47. reliable, 48. merge, 49. disk, 50. imperfectly, 51. carved, 52. external, 53. thaw, 54. fins, 55. situ

56. The optometrist recommended in situ _____ as the best option for her.
- n.* a type of eye surgery used to correct errors of refraction in the eye, such as myopia, hyperopia, and astigmatism, which involves reshaping the cornea (= the clear front part of the eye) to improve how light is focused onto the retina
57. 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
58. Humankind took centuries to _____ true democracy.
- v.* to finish or achieve something successfully
59. She falls over _____ when she sees her mother-in-law.
- adv.* at, to, or toward the direction or place that is behind or rear
60. You have to _____ your content to the age of the audience.
- v.* to make a minor modification to something to make it more suited for a new set of conditions or to make it function better.
61. Patients undergoing _____ surgery are often put to sleep by anesthesia.
- n.* a sharp cut made in something with a sharp tool, especially during a medical procedure
62. The sponge takes up the _____ well.
- n.* a substance, such as water or oil that flows freely and is neither a solid nor a gas

ANSWERS: 56. keratomileusis, 57. process, 58. accomplish, 59. backward, 60. adjust, 61. incisional, 62. liquid

63. The metal _____ was an essential piece of machinery in the fabrication workshop.
- n.* a machine tool that rotates a workpiece on its axis to perform various operations, such as cutting, drilling, or sanding
64. After the age of 40, most people begin to experience _____.
- n.* a visual impairment that occurs with age, in which the lens of the eye loses elasticity and the ability to focus on close objects; farsightedness caused by reduced accommodation power of the eye due to the aging process
65. The body needs a certain amount of _____ to build and repair tissues.
- n.* a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues
66. Increased _____ pressure leads to the development of glaucoma.
- n.* the round part of the eye of a vertebrate that is usually inside the head and, therefore, cannot be seen
67. The _____ party strongly disagreed with the government's proposed legislation.
- n.* the act of disagreeing or resisting; the state of strong disagreement
68. He spent hours every day _____ figures out of clay.
- v.* to create a work of art by carving, casting, or other shaping techniques
69. His _____ view of the situation prevented him from seeing the bigger picture.
- adj.* near-sighted; lacking foresight or ability to plan; narrow-minded or lacking in perspective
70. I need to refill my _____ for allergy medication at the pharmacy.
- n.* a written or spoken instruction that directs a medical practitioner to prescribe a specific treatment or medication for a patient

ANSWERS: 63. lathe, 64. presbyopia, 65. protein, 66. eyeball, 67. opposition, 68. sculpting, 69. myopic, 70. prescription

71. He used a sharp tool to _____ his initials onto the metal.

- v.* to carve, cut, or engrave (a design or text) into a hard surface; to corrode, erode or eat away at a metal surface using acid or another chemical substance to create a design or pattern

72. The _____ mountains make the city difficult to be invaded.

- adj.* that is near or around, or closely encircling something

73. Driving is difficult for me because of my poor _____.

- n.* the ability to think about or see the future with imagination and intelligence; the faculty of being able to see

74. The _____ cliff made it difficult to climb.

- adj.* having a sharp inclination or slope

75. The _____ of the earth can be seen from space.

- n.* the degree to which a line or surface deviates from being straight or flat; a measure of the amount of bending of a curve

76. The corporation _____ dominated the entire tobacco business.

- adv.* finally, particularly after a long time or a lot of struggle, complications, and so on

77. He _____ the letter with hot wax.

- v.* to close or fasten an envelope, etc. securely; (noun) a large marine mammal that chiefly lives in cold regions and comes on shore to breed

78. The content is _____ and informative for me.

- adj.* sharply exact or accurate or delimited

ANSWERS: 71. etch, 72. surrounding, 73. vision, 74. steep, 75. curvature, 76. eventually, 77. sealed, 78. precise

79. They had to _____ a system that did not depend on fossil fuels.
- v. to come up with an idea, plan, theory, etc., using your intelligence or imagination
80. _____ lasers are used in various medical procedures, including eye surgeries.
- n. a unit of time that is equal to one quadrillionth of a second (10^{-15} seconds), and femtosecond lasers are used in surgery and other medical applications
81. We need to _____ the aspect of his personality from the part of his competence when making an investment decision.
- v. to force, take, or pull apart; mark as different
82. The pilot and flight attendant ran through the check-out _____.
- n. a way of doing something, especially the official or well-known way
83. The doctor carefully examined the _____ medical history.
- n. a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic
84. Blood _____ makes up about half of the volume of blood.
- n. (biology) the yellow-colored liquid component of blood, in which blood cells are suspended; (physics) one of the four fundamental states of matter consisting of positive ions and free electrons
85. The _____ of the katana itself is still in excellent condition.
- n. the flat part of a knife, weapon, or machine with a very thin edge used for cutting

ANSWERS: 79. devise, 80. Femtosecond, 81. separate, 82. procedure, 83. patient's, 84. plasma, 85. blade

86. My mother taught me how to ____.

- v.* to join, fasten, or repair two pieces of something by putting the thread through them with a needle

87. He is a skilled _____ that has many years of training and experience.

- n.* a doctor who is trained to perform medical operations that involve cutting open a person's body

88. Could you help me _____ some furniture?

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

89. The marathon runner covered a long _____ in a short amount of time.

- n.* the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance

90. My grandfather had a problem with his eyes and went to an _____ specialist.

- n.* the branch of medicine that deals with the anatomy, physiology, and diseases of the eye

91. The sun will _____ the mist.

- v.* to turn a liquid into a gas; to become less intense and disappear gradually

ANSWERS: 86. sew, 87. surgeon, 88. shift, 89. distance, 90. ophthalmology, 91. evaporate