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Vocabulary Builder Reference from...

Lina Marieth Hoyos: What is the coldest thing in the world? | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

mount

v. to increase, go up, or advance gradually or continuously; to prepare and supply with the necessary equipment for execution or performance; to ride on something or someone

synonym : climb, increase, get on

(1) **mount** a hill, (2) **mount** a counterattack

They **mounted** pictures on the paper in preparation for the birthday card.

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.

glacier

n. a slowly moving mass of ice formed from snow on mountains or near the North Pole or the South Pole

synonym : iceberg, ice floe

(1) **glacier** retreat, (2) **glaciers** move tardily

The **glaciers** of the ice age have shaped Fjord.

physics

n. the science of matter and energy and their interactions

(1) nuclear **physics**, (2) laws of **physics**

He studied the **physics** of radiation.

lab *n.* a workplace for the conduct of scientific research; a laboratory
synonym: workshop, laboratory, research chamber
(1) **lab** instrument, (2) medical **lab**
The Prime Minister will pay a courtesy visit to the Nobel laureate's **lab**.

fraction *n.* a small part or item forming a piece of a whole; the quotient of two rational numbers
synonym: piece, part, fragment
(1) a **fractional** share of the vote, (2) a numerator in a **fraction**
He spent only a **fraction** of his earnings.

degree *n.* a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment
synonym: level, qualification, diploma
(1) bachelor's **degree**, (2) **degree** centigrade
She received her **degree** in psychology from the university.

absolute *adj.* perfect or complete or to the most considerable degree possible
synonym: complete, infrangible, indisputable
(1) **absolute** loyalty, (2) an **absolute** must
Gandhi had an **absolute** zeal for nonviolence.

refrigerator *n.* an appliance or device used for preserving and cooling food and beverages by maintaining a low temperature within a closed compartment
synonym: fridge, cooler, icebox
(1) **refrigerator** magnet, (2) empty **refrigerator**
Don't forget to put the eggs in the **refrigerator** after you've used 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.

temperature

n. the degree of hotness or coldness of a thing or place

synonym : climate, warmth, degree

(1) extreme **temperatures**, (2) the atmospheric **temperature**

Cities around the world set records for highest **temperatures** this summer.

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.

incredibly

adv. in a way that is very difficult to believe; exceedingly or extremely

synonym : enormously, exceptionally, extraordinarily

(1) **incredibly** cheerful character, (2) get **incredibly** insecure

Several cities are experiencing **incredibly** high unemployment rates.

sensitive

adj. able to notice slight changes, signals, or influences; able to feel or perceive other's feelings; susceptible to the things people say or do

synonym : exposed, susceptible, keen

(1) **sensitive** documents, (2) baby with **sensitive** skin
The teacher is very **sensitive** to children's feelings.

instrument

n. an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work

synonym: apparatus, tool, device

(1) musical **instruments**, (2) surgical **instruments**

This electronic **instrument** is required to undergo periodic inspections to ensure precision.

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.

universe

n. everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy

synonym: cosmos, macrocosm

(1) theory of the **universe**, (2) expansion of the **universe**

The **universe** is about 13.8 billion years old.

extreme

adj. very great in amount or degree

synonym: farthestmost, outermost, fierce

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

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

particle

n. a small piece of something; a word or piece of a term with grammatical function but little or no significance

synonym: atom, grain, bit

(1) charged **particle**, (2) **particle** energy

We can calculate the position of the **particles** statistically.

atom

n. the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus

synonym : particle, element, fraction

(1) oxygen **atom**, (2) neutral hydrogen **atoms**

The outermost electron shell of an **atom** determines its chemical characteristics.

solid

adj. hard or firm; characterized by good substantial quality

synonym : stable, reliable, hard

(1) **solid** ally, (2) **solid** employment measures

The **solid-state** of water is called ice.

perceive

v. to become aware or conscious of something through the senses

synonym : sense, discern, feel

(1) **perceive** a threat, (2) **perceive** light

Australia is widely **perceived** as having low levels of corruption.

environment

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

synonym : atmosphere, surroundings, climate

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

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

atomic

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

synonym : tiny, microscopic, nuclear

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

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

transfer

v. to move, pass, or change from one person, place, or situation to another

synonym : move, relocate, shift

(1) **transfer** a file, (2) **transfer** power

She **transferred** the money from her savings account to her checking account.

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.

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.

beam

n. a long, sturdy piece of timber, metal, or other material used to support a structure or span a distance; a ray or stream of light emitted by a source

synonym: ray, ray of light, shaft of light

(1) **beam** of light, (2) a structural **beam** of a building

The sun's **beam** shone through the window and illuminated the room.

circumstance

n. the specific conditions or events that surround a particular situation or occurrence

synonym: condition, context, environment

(1) **circumstance** of birth, (2) **circumstance** of injury

She explained the **circumstances** surrounding the accident.

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.

stall

v. to stop or cause to stop making progress; (noun) small area or booth set off for the sale of goods in a market or

large covered area

synonym : halt, hamper, (noun) cubicle

(1) **stall** at sea, (2) **stall** in a tunnel

The negotiations proceeded slowly and finally **stalled**.

device

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

synonym : gadget, instrument, tool

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

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

optical

adj. of or relating to or light or the ability to see; (noun) the science of light and vision, and to instruments and techniques used in the study and application of light

synonym : visual, ocular

(1) new **optical** glasses, (2) **optical** fiber

The **optical** illusion made it appear like the building was floating in midair.

trap

n. a piece of equipment or hole for catching animals or people; (verb) to catch animals or people and prevent them from escaping

synonym : catch, snare, pinfall

(1) set a **trap**, (2) **trap** an animal

The enemy fell right into the **trap**.

inject

v. to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)

synonym : shoot, infiltrate, insinuate

(1) **inject** under the skin, (2) **inject** a personal opinion into a debate

Let's try to **inject** a bit of enthusiasm into your performance.

vacuum

n. a space empty of matter; a device or tool used for cleaning or removing debris by creating suction

synonym : void, emptiness, gap

(1) **vacuum** cleaner, (2) **vacuum** packing

Please use the **vacuum** to clean up the mess on the floor.

chamber

n. a large room used for a formal, public, or particular purpose; one of the parts of a parliament

synonym : association, cabin, legislature

(1) a gas **chamber**, (2) the lower **chamber**

The surgeon made an incision in the **chambers** of the patient's heart.

magnetic

adj. having the properties of attracting or repelling certain materials containing iron or steel

synonym : attractive, drawing, hypnotic

(1) **magnetic** field, (2) a **magnetic** tape

The **magnetic** force of the earth keeps our planet spinning.

aim

v. to try or plan to get or achieve something

synonym : aspire, direct, target

(1) **aim** at a specific target, (2) **aim** to be a nurse

We **aim** for an overseas expansion.

tune

n. a musical composition or set of musical notes that are played or sung; (verb) to adjust or set something to a specific condition or standard

synonym : melody, harmony, (verb) adjust

(1) the **tune** of a song, (2) **tune** a piano

The band played a beautiful **tune** on their instruments.

frequency

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

synonym : recurrence, repetition, regularity

(1) **frequency** band, (2) high **frequency**

The oscillator hunts for the correct **frequency**.

absorb

v. to take in a fluid or other substance gradually

synonym: consume, soak, ingest

(1) **absorb** energy, (2) **absorb** a shock

The sponge **absorbs** water well.

photon

n. a unit or quantum of electromagnetic energy, typically regarded as a particle that is the basic constituent of all light and other forms of electromagnetic radiation

synonym: particle, quantum, light

(1) **photon** emission, (2) **photon** energy

Infrared cameras detect **photons** in the infrared range of the electromagnetic spectrum.

perpendicular

adj. forming, situated at, or being at a right angle to a given line or plane; upright or vertical; at right angles to the horizon

synonym: vertical, upright, standing

(1) **perpendicular** angles, (2) **perpendicular** walls

The two lines were perfectly **perpendicular** to each other.

arrangement

n. a plan or preparation for the future event; the action or process of placing things in a particular order

synonym: placement, configuration, account

(1) **arrangement** of the furniture, (2) **arrangement** committee

As a first **arrangement**, we agreed to meet the following Friday.

intercept

v. to stop and catch someone or something to prevent them from continuing to a destination

synonym: ambush, block, prevent

(1) **intercept** an enemy force, (2) **intercept** X rays

It is illegal to **intercept** police radio.

intersect

v. to meet or cross one another

synonym: cross, bisect, cut

(1) **intersect** at a point, (2) railways **intersect** the country

Her multidisciplinary works **intersect** music and picture with writing.

sluggish

adj. lacking energy, vitality, or motivation; slow or inactive in response, movement, or progress

synonym : lethargic, slow, inactive

(1) **sluggish** economy, (2) **sluggish** response

After a long day at work, I feel **sluggish** and lack energy.

invention

n. the creation of a new device or process resulting from study and experimentation; the act of inventing

synonym : creation, design, innovation

(1) the **invention** of new techniques, (2) common **invention**

Necessity is the mother of **invention**.

molasses

n. a thick, dark syrup made from boiled sugar cane or sugar beet juice, often used as a sweetener in cooking and baking

synonym : treacle, syrup, honey

(1) **molasses** cookies, (2) thick **molasses**

The recipe calls for a tablespoon of **molasses** to add sweetness.

Kelvin

n. a unit of measurement for temperature in the International System of Units (SI), which starts at absolute zero, the theoretical lowest limit of temperature, and named after the British physicist William Thomson, also known as Lord Kelvin

synonym : K, degree

(1) **Kelvin** scale, (2) **Kelvin** measurement

The scientist cooled the sample to just a couple of **Kelvin** to observe quantum effects.

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.

develop

v. to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created

synonym: evolve, progress, advance

(1) **develop** a strategy, (2) **develop** a skill

We must **develop** a new system to streamline our workflow and increase efficiency.

contribute

v. to give something, especially money or goods, to provide or achieve something together with other people

synonym: donate, devote, commit

(1) **contribute** a large sum of money to the fund,

(2) **contribute** to society

Government workers cannot **contribute** to political campaigns.

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**.

improvisation

n. the act of making something up on the spot or creating or performing something without preparation

synonym: spontaneity, ad-lib, extemporization

(1) **improvisation** on stage, (2) jazz **improvisation**

He created a beautiful piece of music using only **improvisation**.

detect

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

synonym: catch, observe, notice

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

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

fluctuation

n. a change, or the process of changing, that frequently happens, especially from one extreme to another; the quality of being unsteady and subject to changes

synonym: change, instability, flux

(1) price **fluctuations**, (2) **fluctuation** of water level

Temperature **fluctuations** are often milder in oceanfront areas.

underground

adj. under the surface of the ground; a secret group organized to achieve a specific purpose, such as overthrowing the government or occupying a force

synonym: subterranean, subsurface, confidential

(1) water flowing **underground**, (2) **underground** activist

Having **underground** parking has been very beneficial throughout the winter.

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.

deposit

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

synonym: bank, installment, sedimentation

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

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

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.

satellite

n. an electronic device that is sent up into space and moves around the Earth or another planet, used for gathering information or communicating by radio, television, etc.

synonym : orbiter, asteroid, moon

(1) a GPS **satellite**, (2) a meteorological **satellite**

Launching an artificial **satellite** contributed to the technological development of our country.

secondly

adv. used to introduce the second point or item in a list or series of statements, considerations, etc.

synonym : in the second place, next, subsequently

(1) **secondly** connected, (2) **secondly**, it is important

Firstly, we will discuss the budget; **secondly**, we will go over the schedule.

enormous

adj. extremely large or great

synonym : huge, giant, gigantic

(1) **enormous** amount, (2) **enormous** potential

Shakespeare's output of poetry was **enormous**.

probe

n. a tool used for testing or examining, especially for medical or scientific purposes, or an exploratory mission to a planet or other celestial body; (verb) to investigate, examine, or search into something

synonym : investigation, inquiry, examination

(1) a lunar **probe**, (2) **probe** for inside information

NASA sent a **probe** to study the atmosphere of Jupiter.

frontier

n. a border that separates two countries, or the area near this line

synonym : border, boundary, borderland

(1) **frontier** disputes, (2) the Italian **frontier** with Switzerland
He worked at the **frontier** of behavioral economics.

sensitivity

n. the ability to perceive or respond to subtle differences or changes; the ability to understand and respond to the needs and feelings of others

synonym : alertness, attentiveness, sympathy

(1) **sensitivity** analysis, (2) become full of **sensitivity**

The instrument has a high **sensitivity** to temperature changes.

candidate

n. a person who is seeking or being considered for some kind of position, title, honor, or award; a job applicant

synonym : applicant, nominee, contender

(1) **candidate** selection, (2) PhD **candidate**

The **candidate's** platform focused on healthcare reform and reducing income inequality.

gravitational

adj. relating to or caused by gravity (= the force that attracts objects towards one another)

synonym : weighty, heavy, earthbound

(1) **gravitational** energy, (2) **gravitational** waves

The **gravitational** force of the black hole was so strong that nothing, not even light, could escape.

phenomenon

n. something that exists and can be perceptible, especially one that is not fully understood

synonym : marvel, wonder, splendor

(1) natural **phenomenon**, (2) historical **phenomenon**

A rainbow is a natural **phenomenon**.

drown

v. to die or cause to die by being unable to breathe underwater

synonym : douse, drench, overwhelm

(1) **drown** in a bath, (2) I was **drowned** in work

Floods have the potential to **drown** any subsurface animals easily.

norm

n. something that is regarded as usual, typical, or standard
synonym: criterion, mean, standard

(1) **norm** of action, (2) cultural **norm**

The systems we have developed has accepted as industry **norms**.

centimeter

n. a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter

(1) **centimeter** measurement, (2) thirty **centimeters** tall

The room was only one **centimeter** wider than the piano, making it a tight fit.

quantum

n. the smallest amount or unit of something, especially (electromagnetic) energy

(1) probabilistic **quantum** theory, (2) laws of **quantum** mechanics

Big techs are now eager to develop **quantum** computers.

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.

condensation

n. the process by which water vapor in the air turns into a liquid when it comes into contact with a surface that is cooler than the air; the act of making something more concise or shorter

synonym: vaporization, evaporation, precipitation

(1) **condensation** nuclei, (2) **condensation** of ideas

The **condensation** on the window was a clear sign of the high humidity.

quest

n. a long or challenging search for something

synonym: exploration, inquisition, pursuit

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

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

unravel

v. undo twisted, knitted, or woven threads by separating it

synonym: separate, unknot, ravel

(1) **unravel** a knit, (2) **unravel** a plot

Detectives are still attempting to **unravel** the mystery of his death.

mystery

n. something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest of something; a genre of fiction that involves the solution of a crime or a puzzle

synonym: enigma, puzzle, secret

(1) **mystery** novel, (2) unsolved **mystery**

The **mystery** surrounding the disappearance of the traveler has yet to be solved by authorities.

Session 2: Spelling

- | | |
|------------------------------------|--|
| 1. a fr_____onal share of the vote | <i>n.</i> a small part or item forming a piece of a whole; the quotient of two rational numbers |
| 2. b__y emotion | <i>v.</i> to place a dead body in the ground, grave, or tomb |
| 3. an ab_____te must | <i>adj.</i> perfect or complete or to the most considerable degree possible |
| 4. pe_____ve a threat | <i>v.</i> to become aware or conscious of something through the senses |
| 5. un_____l a knit | <i>v.</i> undo twisted, knitted, or woven threads by separating it |
| 6. cen_____er measurement | <i>n.</i> a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter |
| 7. t__p an animal | <i>n.</i> a piece of equipment or hole for catching animals or people; (verb) to catch animals or people and prevent them from escaping |
| 8. become full of sen_____ty | <i>n.</i> the ability to perceive or respond to subtle differences or changes; the ability to understand and respond to the needs and feelings of others |
| 9. mo__t a counterattack | <i>v.</i> to increase, go up, or advance gradually or continuously; to prepare and supply with the necessary equipment for execution or performance; to ride on something or someone |

ANSWERS: 1. fraction, 2. bury, 3. absolute, 4. perceive, 5. unravel, 6. centimeter, 7. trap, 8. sensitivity, 9. mount

10. natural phe_____on *n.* something that exists and can be perceptible, especially one that is not fully understood
11. get inc_____ly insecure *adv.* in a way that is very difficult to believe; exceedingly or extremely
12. musical ins_____nts *n.* an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work
13. en_____er shortage *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
14. in_____pt an enemy force *v.* to stop and catch someone or something to prevent them from continuing to a destination
15. the te_____ue applied to construction *n.* a particular way or art of doing something that needs skill
16. surgical ins_____nts *n.* an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work
17. theory of the un_____se *n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
18. Ke____n scale *n.* a unit of measurement for temperature in the International System of Units (SI), which starts at absolute zero, the theoretical lowest limit of temperature, and named after the British physicist William Thomson, also known as Lord Kelvin

ANSWERS: 10. phenomenon, 11. incredibly, 12. instrument, 13. engineer, 14. intercept, 15. technique, 16. instrument, 17. universe, 18. Kelvin

19. se_____ve documents *adj.* able to notice slight changes, signals, or influences; able to feel or perceive other's feelings; susceptible to the things people say or do
20. tr_____er a file *v.* to move, pass, or change from one person, place, or situation to another
21. in_____pt X rays *v.* to stop and catch someone or something to prevent them from continuing to a destination
22. ex_____e sports *adj.* very great in amount or degree
23. probabilistic qu_____m theory *n.* the smallest amount or unit of something, especially (electromagnetic) energy
24. va____m cleaner *n.* a space empty of matter; a device or tool used for cleaning or removing debris by creating suction
25. st__l in a tunnel *v.* to stop or cause to stop making progress; (noun) small area or booth set off for the sale of goods in a market or large covered area
26. tr_____er power *v.* to move, pass, or change from one person, place, or situation to another
27. ref_____tor magnet *n.* an appliance or device used for preserving and cooling food and beverages by maintaining a low temperature within a closed compartment
28. Ke____n measurement *n.* a unit of measurement for temperature in the International System of Units (SI), which starts at absolute zero, the theoretical lowest limit of temperature, and named after the British physicist William Thomson, also known as Lord Kelvin

ANSWERS: 19. sensitive, 20. transfer, 21. intercept, 22. extreme, 23. quantum, 24. vacuum, 25. stall, 26. transfer, 27. refrigerator, 28. Kelvin

29. cultural n__m *n.* something that is regarded as usual, typical, or standard
30. electronic de___e *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
31. und_____nd activist *adj.* under the surface of the ground; a secret group organized to achieve a specific purpose, such as overthrowing the government or occupying a force
32. the in_____on of new techniques *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
33. st__l at sea *v.* to stop or cause to stop making progress; (noun) small area or booth set off for the sale of goods in a market or large covered area
34. in___t a personal opinion into a debate *v.* to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)
35. cir_____nce of injury *n.* the specific conditions or events that surround a particular situation or occurrence
36. ca_____te selection *n.* a person who is seeking or being considered for some kind of position, title, honor, or award; a job applicant
37. the t__e of a song *n.* a musical composition or set of musical notes that are played or sung; (verb) to adjust or set something to a specific condition or standard

ANSWERS: 29. norm, 30. device, 31. underground, 32. invention, 33. stall, 34. inject, 35. circumstance, 36. candidate, 37. tune

38. thick mo____es *n.* a thick, dark syrup made from boiled sugar cane or sugar beet juice, often used as a sweetener in cooking and baking
39. de____t accumulation *n.* a sum of money or materials placed or kept in a bank, safety deposit box, or other secure places for safekeeping; a layer of rock, sand, or other material left behind by a flowing liquid or eroding force
40. se____ly connected *adv.* used to introduce the second point or item in a list or series of statements, considerations, etc.
41. laws of qu____m mechanics *n.* the smallest amount or unit of something, especially (electromagnetic) energy
42. railways in____ct the country *v.* to meet or cross one another
43. pr__e for inside information *n.* a tool used for testing or examining, especially for medical or scientific purposes, or an exploratory mission to a planet or other celestial body; (verb) to investigate, examine, or search into something
44. de___e centigrade *n.* a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment
45. de____t money *n.* a sum of money or materials placed or kept in a bank, safety deposit box, or other secure places for safekeeping; a layer of rock, sand, or other material left behind by a flowing liquid or eroding force

ANSWERS: 38. molasses, 39. deposit, 40. secondly, 41. quantum, 42. intersect, 43. probe, 44. degree, 45. deposit

46. so__d employment measures *adj.* hard or firm; characterized by good substantial quality
47. 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
48. a meteorological sa_____te *n.* an electronic device that is sent up into space and moves around the Earth or another planet, used for gathering information or communicating by radio, television, etc.
49. a_m to be a nurse *v.* to try or plan to get or achieve something
50. ex_____e weather events *adj.* very great in amount or degree
51. new op_____l glasses *adj.* of or relating to or light or the ability to see; (noun) the science of light and vision, and to instruments and techniques used in the study and application of light
52. a structural b__m of a building *n.* a long, sturdy piece of timber, metal, or other material used to support a structure or span a distance; a ray or stream of light emitted by a source
53. expansion of the un_____se *n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
54. de_____p a skill *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created

ANSWERS: 46. solid, 47. discovery, 48. satellite, 49. aim, 50. extreme, 51. optical, 52. beam, 53. universe, 54. develop

55. bachelor's de___e *n.* a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment
56. b__y in the earth *v.* to place a dead body in the ground, grave, or tomb
57. 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
58. ph___n energy *n.* a unit or quantum of electromagnetic energy, typically regarded as a particle that is the basic constituent of all light and other forms of electromagnetic radiation
59. I was dr__ned in work *v.* to die or cause to die by being unable to breathe underwater
60. gra_____nal waves *adj.* relating to or caused by gravity (= the force that attracts objects towards one another)
61. baby with se_____ve skin *adj.* able to notice slight changes, signals, or influences; able to feel or perceive other's feelings; susceptible to the things people say or do
62. jazz imp_____ion *n.* the act of making something up on the spot or creating or performing something without preparation
63. the Italian fr___er with Switzerland *n.* a border that separates two countries, or the area near this line

ANSWERS: 55. degree, 56. bury, 57. nitrogen, 58. photon, 59. drown, 60. gravitational, 61. sensitive, 62. improvisation, 63. frontier

64. the atmospheric tem_____re *n.* the degree of hotness or coldness of a thing or place
65. a ma_____ic tape *adj.* having the properties of attracting or repelling certain materials containing iron or steel
66. oxygen a__m *n.* the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus
67. 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
68. a_m at a specific target *v.* to try or plan to get or achieve something
69. in_____ct at a point *v.* to meet or cross one another
70. 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
71. sl_____sh response *adj.* lacking energy, vitality, or motivation; slow or inactive in response, movement, or progress
72. in___t under the skin *v.* to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)
73. historical phe_____on *n.* something that exists and can be perceptible, especially one that is not fully understood

ANSWERS: 64. temperature, 65. magnetic, 66. atom, 67. laser, 68. aim, 69. intersect, 70. laser, 71. sluggish, 72. inject, 73. phenomenon

74. sl____sh economy *adj.* lacking energy, vitality, or motivation; slow or inactive in response, movement, or progress
75. a gas ch____r *n.* a large room used for a formal, public, or particular purpose; one of the parts of a parliament
76. n__m of action *n.* something that is regarded as usual, typical, or standard
77. estimate pr____e costs *adj.* sharply exact or accurate or delimited
78. 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
79. neutral hydrogen a__ms *n.* the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus
80. thirty cen_____ers tall *n.* a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
81. fr_____cy band *n.* an ordered array of colors into which a light beam can be split
82. ma____ic field *adj.* having the properties of attracting or repelling certain materials containing iron or steel
83. a numerator in a fr____on *n.* a small part or item forming a piece of a whole; the quotient of two rational numbers
84. sen_____ty analysis *n.* the ability to perceive or respond to subtle differences or changes; the ability to understand and respond to the needs and feelings of others

ANSWERS: 74. sluggish, 75. chamber, 76. norm, 77. precise, 78. planet, 79. atom, 80. centimeter, 81. frequency, 82. magnetic, 83. fraction, 84. sensitivity

85. ac____te measurements *adj.* correct and exact in all details
86. 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
87. unsolved my_____y *n.* something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest of something; a genre of fiction that involves the solution of a crime or a puzzle
88. set a t__p *n.* a piece of equipment or hole for catching animals or people; (verb) to catch animals or people and prevent them from escaping
89. ab___b energy *v.* to take in a fluid or other substance gradually
90. gl_____rs move tardily *n.* a slowly moving mass of ice formed from snow on mountains or near the North Pole or the South Pole
91. gra_____nal energy *adj.* relating to or caused by gravity (= the force that attracts objects towards one another)
92. at___c bomb *adj.* of or relating to atom (= the smallest component of an element)
93. de___t a bad event *v.* to find or recognize something, especially something difficult to see, hear, etc.
94. mo__t a hill *v.* to increase, go up, or advance gradually or continuously; to prepare and supply with the necessary equipment for execution or performance; to ride on something or someone

ANSWERS: 85. accurate, 86. discovery, 87. mystery, 88. trap, 89. absorb, 90. glacier, 91. gravitational, 92. atomic, 93. detect, 94. mount

95. inc_____ly cheerful character *adv.* in a way that is very difficult to believe; exceedingly or extremely
96. con_____ion nuclei *n.* the process by which water vapor in the air turns into a liquid when it comes into contact with a surface that is cooler than the air; the act of making something more concise or shorter
97. my_____y novel *n.* something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest of something; a genre of fiction that involves the solution of a crime or a puzzle
98. se_____ly, it is important *adv.* used to introduce the second point or item in a list or series of statements, considerations, etc.
99. chaotic env_____nt *n.* the natural world such as air, water, and land in which humans, animals, and plants live
100. tracking de_____e *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
101. gl_____r retreat *n.* a slowly moving mass of ice formed from snow on mountains or near the North Pole or the South Pole
102. high fr_____cy *n.* an ordered array of colors into which a light beam can be split
103. pr_____e analyses *adj.* sharply exact or accurate or delimited

ANSWERS: 95. incredibly, 96. condensation, 97. mystery, 98. secondly, 99. environment, 100. device, 101. glacier, 102. frequency, 103. precise

104. nuclear ph____s *n.* the science of matter and energy and their interactions
105. at___c nucleus *adj.* of or relating to atom (= the smallest component of an element)
106. con_____te a large sum of money to the fund *v.* to give something, especially money or goods, to provide or achieve something together with other people
107. l_b instrument *n.* a workplace for the conduct of scientific research; a laboratory
108. con_____te to society *v.* to give something, especially money or goods, to provide or achieve something together with other people
109. laws of ph____s *n.* the science of matter and energy and their interactions
110. price flu_____ons *n.* a change, or the process of changing, that frequently happens, especially from one extreme to another; the quality of being unsteady and subject to changes
111. a civil en_____er *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
112. flu_____on of water level *n.* a change, or the process of changing, that frequently happens, especially from one extreme to another; the quality of being unsteady and subject to changes
113. empty ref_____tor *n.* an appliance or device used for preserving and cooling food and beverages by maintaining a low temperature within a closed compartment

ANSWERS: 104. physics, 105. atomic, 106. contribute, 107. lab, 108. contribute, 109. physics, 110. fluctuation, 111. engineer, 112. fluctuation, 113. refrigerator

114. medical l_b *n.* a workplace for the conduct of scientific research; a laboratory
115. env_____nt affairs *n.* the natural world such as air, water, and land in which humans, animals, and plants live
116. PhD ca_____te *n.* a person who is seeking or being considered for some kind of position, title, honor, or award; a job applicant
117. ab___b a shock *v.* to take in a fluid or other substance gradually
118. so__d ally *adj.* hard or firm; characterized by good substantial quality
119. a lunar pr__e *n.* a tool used for testing or examining, especially for medical or scientific purposes, or an exploratory mission to a planet or other celestial body; (verb) to investigate, examine, or search into something
120. dr__n in a bath *v.* to die or cause to die by being unable to breathe underwater
121. extreme tem_____res *n.* the degree of hotness or coldness of a thing or place
122. cir_____nce of birth *n.* the specific conditions or events that surround a particular situation or occurrence
123. b__m of light *n.* a long, sturdy piece of timber, metal, or other material used to support a structure or span a distance; a ray or stream of light emitted by a source

ANSWERS: 114. lab, 115. environment, 116. candidate, 117. absorb, 118. solid, 119. probe, 120. drown, 121. temperature, 122. circumstance, 123. beam

124. ph___n emission *n.* a unit or quantum of electromagnetic energy, typically regarded as a particle that is the basic constituent of all light and other forms of electromagnetic radiation
125. his conclusion was ob____s *adj.* easy to see, discover or understand
126. the lower ch____r *n.* a large room used for a formal, public, or particular purpose; one of the parts of a parliament
127. on a qu__t for happiness *n.* a long or challenging search for something
128. un____l a plot *v.* undo twisted, knitted, or woven threads by separating it
129. a te____ue in martial arts *n.* a particular way or art of doing something that needs skill
130. ob____s reasons *adj.* easy to see, discover or understand
131. per____lar walls *adj.* forming, situated at, or being at a right angle to a given line or plane; upright or vertical; at right angles to the horizon
132. water flowing und____nd *adj.* under the surface of the ground; a secret group organized to achieve a specific purpose, such as overthrowing the government or occupying a force
133. fr____er disputes *n.* a border that separates two countries, or the area near this line
134. hazardous li____d *n.* a substance, such as water or oil that flows freely and is neither a solid nor a gas

ANSWERS: 124. photon, 125. obvious, 126. chamber, 127. quest, 128. unravel, 129. technique, 130. obvious, 131. perpendicular, 132. underground, 133. frontier, 134. liquid

135. colorless li___d *n.* a substance, such as water or oil that flows freely and is neither a solid nor a gas
136. con_____ion of ideas *n.* the process by which water vapor in the air turns into a liquid when it comes into contact with a surface that is cooler than the air; the act of making something more concise or shorter
137. arr_____nt of the furniture *n.* a plan or preparation for the future event; the action or process of placing things in a particular order
138. pa_____le energy *n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance
139. vitamin and mi_____ls *n.* a solid inorganic substance occurring in nature having a definite chemical composition
140. mi_____l rights *n.* a solid inorganic substance occurring in nature having a definite chemical composition
141. de___t smuggling across borders *v.* to find or recognize something, especially something difficult to see, hear, etc.
142. ab_____te loyalty *adj.* perfect or complete or to the most considerable degree possible
143. a stone wall su_____nds the palace *v.* to be all around something or somebody
144. a GPS sa_____te *n.* an electronic device that is sent up into space and moves around the Earth or another planet, used for gathering information or communicating by radio, television, etc.

ANSWERS: 135. liquid, 136. condensation, 137. arrangement, 138. particle, 139. mineral, 140. mineral, 141. detect, 142. absolute, 143. surround, 144. satellite

145. t__e a piano *n.* a musical composition or set of musical notes that are played or sung; (verb) to adjust or set something to a specific condition or standard
146. en____us potential *adj.* extremely large or great
147. va___m packing *n.* a space empty of matter; a device or tool used for cleaning or removing debris by creating suction
148. the qu__t for truth *n.* a long or challenging search for something
149. 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
150. su____nd a town *v.* to be all around something or somebody
151. arr____nt committee *n.* a plan or preparation for the future event; the action or process of placing things in a particular order
152. en____us amount *adj.* extremely large or great
153. op____l fiber *adj.* of or relating to or light or the ability to see; (noun) the science of light and vision, and to instruments and techniques used in the study and application of light
154. pe____ve light *v.* to become aware or conscious of something through the senses

ANSWERS: 145. tune, 146. enormous, 147. vacuum, 148. quest, 149. nitrogen, 150. surround, 151. arrangement, 152. enormous, 153. optical, 154. perceive

155. common in_____on *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
156. charged pa_____le *n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance
157. de_____p a strategy *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
158. mo_____es cookies *n.* a thick, dark syrup made from boiled sugar cane or sugar beet juice, often used as a sweetener in cooking and baking
159. imp_____ion on stage *n.* the act of making something up on the spot or creating or performing something without preparation
160. provide ac_____te information *adj.* correct and exact in all details
161. 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
162. per_____lar angles *adj.* forming, situated at, or being at a right angle to a given line or plane; upright or vertical; at right angles to the horizon

ANSWERS: 155. invention, 156. particle, 157. develop, 158. molasses, 159. improvisation, 160. accurate, 161. planet, 162. perpendicular

Session 3: Fill in the Blanks

1. The _____ surrounding the disappearance of the traveler has yet to be solved by authorities.
 - n.* something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest of something; a genre of fiction that involves the solution of a crime or a puzzle
2. Having _____ parking has been very beneficial throughout the winter.
 - adj.* under the surface of the ground; a secret group organized to achieve a specific purpose, such as overthrowing the government or occupying a force
3. Her multidisciplinary works _____ music and picture with writing.
 - v.* to meet or cross one another
4. The _____ force of the earth keeps our planet spinning.
 - adj.* having the properties of attracting or repelling certain materials containing iron or steel
5. 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
6. Let's try to _____ a bit of enthusiasm into your performance.
 - v.* to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)
7. There are _____ differences between the two wine-producing regions.
 - adj.* easy to see, discover or understand

ANSWERS: 1. mystery, 2. underground, 3. intersect, 4. magnetic, 5. planet, 6. inject, 7. obvious

8. We must _____ a new system to streamline our workflow and increase efficiency.
- v. to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
9. The systems we have developed has accepted as industry _____.
- n. something that is regarded as usual, typical, or standard
10. The negotiations proceeded slowly and finally _____.
- v. to stop or cause to stop making progress; (noun) small area or booth set off for the sale of goods in a market or large covered area
11. The security camera has _____ four intruders.
- v. to find or recognize something, especially something difficult to see, hear, etc.
12. She _____ the money from her savings account to her checking account.
- v. to move, pass, or change from one person, place, or situation to another
13. Every human is responsible for taking care of the Earth's _____.
- n. the natural world such as air, water, and land in which humans, animals, and plants live
14. I made a _____ at the bank to add money to my account.
- n. a sum of money or materials placed or kept in a bank, safety deposit box, or other secure places for safekeeping; a layer of rock, sand, or other material left behind by a flowing liquid or eroding force
15. The recipe calls for a tablespoon of _____ to add sweetness.
- n. a thick, dark syrup made from boiled sugar cane or sugar beet juice, often used as a sweetener in cooking and baking

ANSWERS: 8. develop, 9. norms, 10. stalled, 11. detected, 12. transferred, 13. environment, 14. deposit, 15. molasses

16. The _____ of the ice age have shaped Fjord.
- n.* a slowly moving mass of ice formed from snow on mountains or near the North Pole or the South Pole
17. The room was only one _____ wider than the piano, making it a tight fit.
- n.* a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
18. Don't forget to put the eggs in the _____ after you've used them.
- n.* an appliance or device used for preserving and cooling food and beverages by maintaining a low temperature within a closed compartment
19. I always carry a backup _____ in case my phone runs out of battery.
- n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
20. We ____ for an overseas expansion.
- v.* to try or plan to get or achieve something
21. The Prime Minister will pay a courtesy visit to the Nobel laureate's _____.
- n.* a workplace for the conduct of scientific research; a laboratory
22. She received her _____ in psychology from the university.
- n.* a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment
23. The enemy fell right into the _____.
- n.* a piece of equipment or hole for catching animals or people; (verb) to catch animals or people and prevent them from escaping

ANSWERS: 16. glaciers, 17. centimeter, 18. refrigerator, 19. device, 20. aim, 21. lab, 22. degree, 23. trap

24. There is plenty of space to _____ everyone.

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

25. On three sides, mountains _____ the settlement.

v. to be all around something or somebody

26. The content is _____ and informative for me.

adj. sharply exact or accurate or delimited

27. Launching an artificial _____ contributed to the technological development of our country.

n. an electronic device that is sent up into space and moves around the Earth or another planet, used for gathering information or communicating by radio, television, etc.

28. Firstly, we will discuss the budget; _____ we will go over the schedule.

adv. used to introduce the second point or item in a list or series of statements, considerations, etc.

29. Temperature _____ are often milder in oceanfront areas.

n. a change, or the process of changing, that frequently happens, especially from one extreme to another; the quality of being unsteady and subject to changes

30. He studied the _____ of radiation.

n. the science of matter and energy and their interactions

31. Jockey's superior _____ brought him victory.

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

ANSWERS: 24. bury, 25. surround, 26. precise, 27. satellite, 28. secondly, 29. fluctuations, 30. physics, 31. technique

32. The band played a beautiful _____ on their instruments.
n. a musical composition or set of musical notes that are played or sung; (verb) to adjust or set something to a specific condition or standard
33. 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
34. The _____ on the window was a clear sign of the high humidity.
n. the process by which water vapor in the air turns into a liquid when it comes into contact with a surface that is cooler than the air; the act of making something more concise or shorter
35. The outermost electron shell of an _____ determines its chemical characteristics.
n. the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus
36. Several cities are experiencing _____ high unemployment rates.
adv. in a way that is very difficult to believe; exceedingly or extremely
37. Carbon has an _____ mass of 12.
adj. of or relating to atom (= the smallest component of an element)
38. The sponge _____ water well.
v. to take in a fluid or other substance gradually
39. It is illegal to _____ police radio.
v. to stop and catch someone or something to prevent them from continuing to a destination

ANSWERS: 32. tune, 33. liquid, 34. condensation, 35. atom, 36. incredibly, 37. atomic, 38. absorbs, 39. intercept

40. The sun's _____ shone through the window and illuminated the room.
n. a long, sturdy piece of timber, metal, or other material used to support a structure or span a distance; a ray or stream of light emitted by a source
41. He created a beautiful piece of music using only _____.
n. the act of making something up on the spot or creating or performing something without preparation
42. The official transcript contains _____ academic records.
adj. correct and exact in all details
43. Detectives are still attempting to _____ the mystery of his death.
v. undo twisted, knitted, or woven threads by separating it
44. Australia is widely _____ as having low levels of corruption.
v. to become aware or conscious of something through the senses
45. The _____ platform focused on healthcare reform and reducing income inequality.
n. a person who is seeking or being considered for some kind of position, title, honor, or award; a job applicant
46. The _____ of water is called ice.
adj. hard or firm; characterized by good substantial quality
47. They _____ pictures on the paper in preparation for the birthday card.
v. to increase, go up, or advance gradually or continuously; to prepare and supply with the necessary equipment for execution or performance; to ride on something or someone

ANSWERS: 40. beam, 41. improvisation, 42. accurate, 43. unravel, 44. perceived, 45. candidate's, 46. solid-state, 47. mounted

48. 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
49. Government workers cannot _____ to political campaigns.
v. to give something, especially money or goods, to provide or achieve something together with other people
50. The surgeon made an incision in the _____ of the patient's heart.
n. a large room used for a formal, public, or particular purpose; one of the parts of a parliament
51. Big techs are now eager to develop _____ computers.
n. the smallest amount or unit of something, especially (electromagnetic) energy
52. The _____ illusion made it appear like the building was floating in midair.
adj. of or relating to or light or the ability to see; (noun) the science of light and vision, and to instruments and techniques used in the study and application of light
53. NASA sent a _____ to study the atmosphere of Jupiter.
n. a tool used for testing or examining, especially for medical or scientific purposes, or an exploratory mission to a planet or other celestial body; (verb) to investigate, examine, or search into something
54. The oscillator hunts for the correct _____.
n. an ordered array of colors into which a light beam can be split
55. He worked at the _____ of behavioral economics.
n. a border that separates two countries, or the area near this line

ANSWERS: 48. laser, 49. contribute, 50. chambers, 51. quantum, 52. optical, 53. probe, 54. frequency, 55. frontier

56. The scientist cooled the sample to just a couple of _____ to observe quantum effects.
- n.* a unit of measurement for temperature in the International System of Units (SI), which starts at absolute zero, the theoretical lowest limit of temperature, and named after the British physicist William Thomson, also known as Lord Kelvin
57. Please use the _____ to clean up the mess on the floor.
- n.* a space empty of matter; a device or tool used for cleaning or removing debris by creating suction
58. After a long day at work, I feel _____ and lack energy.
- adj.* lacking energy, vitality, or motivation; slow or inactive in response, movement, or progress
59. This electronic _____ is required to undergo periodic inspections to ensure precision.
- n.* an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work
60. _____ 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
61. Necessity is the mother of _____.
- n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
62. 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

ANSWERS: 56. Kelvin, 57. vacuum, 58. sluggish, 59. instrument, 60. Nitrogen, 61. invention, 62. discovery

63. Infrared cameras detect _____ in the infrared range of the electromagnetic spectrum.
- n.* a unit or quantum of electromagnetic energy, typically regarded as a particle that is the basic constituent of all light and other forms of electromagnetic radiation
64. The _____ force of the black hole was so strong that nothing, not even light, could escape.
- adj.* relating to or caused by gravity (= the force that attracts objects towards one another)
65. Gandhi had an _____ zeal for nonviolence.
- adj.* perfect or complete or to the most considerable degree possible
66. Cities around the world set records for highest _____ this summer.
- n.* the degree of hotness or coldness of a thing or place
67. She explained the _____ surrounding the accident.
- n.* the specific conditions or events that surround a particular situation or occurrence
68. The _____ is about 13.8 billion years old.
- n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
69. Solar gravity creates _____ pressures and temperatures.
- adj.* very great in amount or degree
70. 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: 63. photons, 64. gravitational, 65. absolute, 66. temperatures, 67. circumstances, 68. universe, 69. extreme, 70. engineer

71. The robust economy of the country is based on its _____ resources.
n. a solid inorganic substance occurring in nature having a definite chemical composition
72. The instrument has a high _____ to temperature changes.
n. the ability to perceive or respond to subtle differences or changes; the ability to understand and respond to the needs and feelings of others
73. That adventurer traveled in _____ of buried treasure.
n. a long or challenging search for something
74. Floods have the potential to _____ any subsurface animals easily.
v. to die or cause to die by being unable to breathe underwater
75. He spent only a _____ of his earnings.
n. a small part or item forming a piece of a whole; the quotient of two rational numbers
76. We can calculate the position of the _____ statistically.
n. a small piece of something; a word or piece of a term with grammatical function but little or no significance
77. As a first _____ we agreed to meet the following Friday.
n. a plan or preparation for the future event; the action or process of placing things in a particular order
78. Shakespeare's output of poetry was _____.
adj. extremely large or great

ANSWERS: 71. mineral, 72. sensitivity, 73. quest, 74. drown, 75. fraction, 76. particles, 77. arrangement, 78. enormous

79. The teacher is very _____ to children's feelings.

adj. able to notice slight changes, signals, or influences; able to feel or perceive other's feelings; susceptible to the things people say or do

80. The two lines were perfectly _____ to each other.

adj. forming, situated at, or being at a right angle to a given line or plane; upright or vertical; at right angles to the horizon

81. A rainbow is a natural _____.

n. something that exists and can be perceptible, especially one that is not fully understood

ANSWERS: 79. sensitive, 80. perpendicular, 81. phenomenon