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Vocabulary Builder Reference from...

Adam Savage: How simple ideas lead to scientific discoveries | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

brain

n. the organ inside the head that is responsible for one's movement, thought, memory, and feeling

synonym : intellect, mind, encephalon

(1) basic **brain** function, (2) permanent **brain** damage

X-rays revealed a small tumor in his **brain**.

stick

v. to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material

synonym : pierce, adhere, stay

(1) **stick** a key in a lock, (2) fire **stick**

You **stick** a bill in the change machine, and the coins pop out.

import

v. to bring goods or services into a country from another country; to transfer electronic data into a database or document;

synonym : bring, spell

(1) **import** goods, (2) **import** a style sheet

The company **imports** raw materials from other countries to manufacture its products.

wagon

n. a four-wheeled vehicle used for transporting goods or people, often pulled by horses, oxen, or other animals; a compartment or container used for storage or transportation, such as a shopping cart or trolley

synonym: cart, buggy, chariot

(1) **wagon** wheel, (2) station **wagon**

The circus **wagon** was brightly painted with pictures of the animals inside.

inertia

n. the quality or state of being inactive, sluggish, or slow to move or act

synonym: sluggishness, lethargy, idleness

(1) **inertia** resistance, (2) Newton's law of **inertia**

The object's **inertia** kept it moving in a straight line until acted upon by an outside force.

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**.

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.

challenger

n. a person or thing that challenges or competes with someone or something else; a contestant in a competition or challenge

synonym: contender, rival, contestant

(1) **challenger** brand, (2) political **challenger**

The **challenger** in the boxing match put up a good fight.

disaster

n. an unexpected event or series of events that cause widespread damage, destruction, or loss of life

synonym: catastrophe, calamity, tragedy

(1) global **disaster**, (2) **disaster** recovery

The **disaster** response team worked around the clock to aid those affected by the earthquake.

physics

n. the science of matter and energy and their interactions

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

He studied the **physics** of radiation.

diagram

n. a simplified illustration of the appearance, structure, or workings of something

synonym: chart, figure, graph

(1) 3D **diagram**, (2) in a **diagram**

He is drawing a **diagram** illustrating how the equipment operates.

movement

n. a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively

synonym: motion, progression, action

(1) a circular **movement**, (2) **movement** of troops

The **movement** of the dancers on stage was graceful and elegant.

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.

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.

creditor

n. a person, company, etc. to whom a debtor owes money

(1) the **creditor's** claims, (2) bankrupt **creditor**

I asked the lawyer to initiate **creditor** negotiations for voluntary liquidation.

conversation

n. an informal talk between two or more people to exchange their views, ideas, information, etc.

synonym: chat, discussion, dialogue

(1) **conversation** in English, (2) a friendly **conversation**

Your **conversation** reflects your thoughts.

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.

librarian

n. a person who works in a library and is responsible for organizing and managing the collection of books and other materials

synonym: curator

(1) academic **librarian**, (2) the chief **librarian**

The **librarian's** duties included organizing and cataloging the library's collection.

contribution

n. the act of giving something, especially money, to a particular cause or organization; a voluntary gift as of money or service or ideas made to some worthwhile cause

synonym: donation, gift, offering

(1) make a positive **contribution**, (2) **contribution** to society

His **contribution** to the charity was a generous donation of money.

solstice

n. either of the two moments in a year when the sun is at its greatest distance from the celestial equator, resulting in the shortest or longest day of the year; the time of year associated with these events

(1) celebrate **solstice**, (2) summer **solstice**

The winter **solstice** marks the shortest day of the year in the Northern Hemisphere.

reflection

n. the act of thinking deeply about something, or the ability to think deeply; the image of something that is seen in a mirror or other reflective surface

synonym: contemplation, meditation, consideration

(1) **reflection** question, (2) photon **reflection**

The teacher asked the students to write a **reflection** on the book they had just read.

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**.

spherical

adj. having the shape of a sphere; round, spherical, or ball-shaped in appearance

synonym: round, orbicular, spherical

(1) **spherical** shape, (2) **spherical** object

The Earth is a nearly **spherical** planet.

bull

n. a male bovine animal; an investor who has a positive outlook on the market or a particular investment and buys with the expectation of prices increasing

synonym: bovine, cattle, bruiser

(1) **bull** market, (2) **bull** fighter

The farmer raised a **bull** on his ranch for breeding purposes.

educated

adj. having received a high standard of education

synonym: knowledgeable, erudite, enlightened

(1) **educated** adult, (2) **educated** speech

Excellent speech is a characteristic of an **educated** man.

observation

n. the act or activity of carefully examining or monitoring something or someone

synonym: watching, notice, reflection

(1) class **observation** day, (2) **observation** instrument

In the hospital, she will remain under constant **observation**.

shadow

n. a dark area or shape cast by an object blocking the passage of light; an area in darkness or shade; a reflected image or copy of something; a person, activity, or influence that follows or accompanies someone or something closely and persistently, often in a secretive or ominous manner

synonym: shade, silhouette, outline

(1) **shadow** cast, (2) **shadow** puppetry

The tree cast a **shadow** over the picnic area, providing relief from the sun.

circular

adj. shaped like a circle; having a round form

synonym: round, loopy, oblique

(1) **circular** economy, (2) non- **circular** orbit

The **circular** shape of the planet makes it difficult to determine which direction is north.

constantly

adv. all the time

synonym: continuously, always, frequently

(1) a **constantly** innovative enterprise, (2) a **constantly** varying mind

The mobile application industry is **constantly** changing.

sphere

n. a round object or geometric shape that is three-dimensional and symmetrical around a central point; a particular aspect or scope of life or activity

synonym : ball, globe, scope

(1) **sphere** of influence, (2) business **sphere**

The **sphere** of the earth is divided into several layers including the crust, mantle, and core.

straight

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

synonym : linear, honest, consecutive

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

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

zenith

n. the highest point or peak; the point in the sky directly above the observer; the culmination or apex of something

synonym : pinnacle, peak, summit

(1) **zenith** of success, (2) **zenith** of popularity

Reaching the **zenith** of his career was a long and difficult climb, but it was worth it.

cast

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

synonym : throw, project, select

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

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

axis

n. a real or imaginary straight line through a body or figure around which the object turns; a group of countries in special alliance

synonym : central, core, pole

(1) vertical **axis**, (2) a coordinate **axis**

The earth's **axis** of rotation is tilted 66.5 degrees to the ecliptic plane.

circumference

n. the distance around the outside of a circular or curved object or area

synonym : perimeter, edge, outer boundary

(1) angle of **circumference**, (2) chest **circumference**
The **circumference** of the earth is approximately 24,901 miles.

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.

extrapolate

v. to guess or think about what might happen or estimate something using the facts that you have now

synonym: deduce, reason, infer

(1) **extrapolate** the results, (2) **extrapolate** animal dose

This predictive model mechanically **extrapolates** past trends into the future.

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?

suspicious

adj. making you feel that someone has done something wrong, illegal, or dishonest without any evidence

synonym: fishy, questionable, doubtful

(1) report **suspicious** activity, (2) a person who is **suspicious**

We carefully examine each **suspicious** transaction report we receive.

geography

n. a field of science devoted to the study of the lands, features, inhabitants, and phenomena of the Earth

synonym: landscape, terrain, topography

(1) **geography** class, (2) economic **geography**
She did well on her **geography** exam.

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**.

commerce

n. the activity of buying and selling things, especially on a large scale

synonym: trade, transaction, dealings

(1) interstate **commerce**, (2) the local chamber of **commerce**

This company has invested heavily in Internet **commerce**.

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.

multiply

v. to add a number to itself a specified number of times; to increase or cause to increase very much in number or quantity

synonym: boost, amplify, reproduce

(1) **multiply** 5 and 6, (2) **multiply** about hundredfold

Multiply a number by itself twice.

diameter

n. the length of a straight line passing through the center of a circle and connecting two points on the circumference

synonym: diam, width

(1) **diameter** of an oval, (2) a particle **diameter**

Draw a circle five centimeters in **diameter**.

machinery

n. a group of large machines or the components of a machine that make it work; social institution functions or structure for doing something

synonym : apparatus, appliance, equipment

(1) heavy **machinery**, (2) inactive **machinery**

The **machinery** of audit formally issued a business improvement order.

boson

n. a type of subatomic particle that follows Bose-Einstein statistics, which determine how identical particles with integer spins behave

synonym : photon, gluon, particle

(1) weak **boson**, (2) Higgs **boson**

The search for new **boson** particles is one of the most exciting areas of modern physics.

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.

experimental

adj. relating to or based on new ideas, forms, methods, etc. that have not been tried before, usually to find out what effect they have

synonym : empirical, exploratory, observed

(1) **experimental** data, (2) **experimental** design

The product is still in the **experimental** stage.

physicist

n. a scientist who specializes in the field of physics

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

Einstein was an outstanding and famous **physicist** of the 20th century.

specialty

n. an area or field in which a person or thing excels or specializes; a particular branch of study, occupation, or

expertise; a special or unique skill or talent

synonym: expertise, specialization, skill

(1) coffee **specialty**, (2) regional **specialty**

The chef's **specialty** was a delicious seafood pasta dish that everyone loved.

refine

v. to make something more pure, polished, cultured, or effective; to improve, perfect, or enhance through a process of purification or development

synonym: purify, process, improve

(1) **refine** oil, (2) **refine** a language

The company is working to **refine** its production process to be more efficient.

confirm

v. to support or establish the truth or certainty of something previously believed or suspected to be the case

synonym: affirm, verify, assure

(1) **confirm** the diagnosis, (2) **confirm** a transaction

Please write to **confirm** your reservation.

also-ran

n. a candidate, competitor, or participant in a race, competition, or contest who finishes outside of the top positions and is not significantly successful or recognized

synonym: underdog, loser, runner-up

(1) sports **also-ran**, (2) academic **also-ran**

The company was once a frontrunner but is now considered an **also-ran** in the industry.

independence

n. freedom from another's or others' control or influence

synonym: freedom, liberty, autonomy

(1) financial **independence**, (2) **independence** ceremony

There is nothing more valuable than **independence** and freedom.

corroborate

v. to confirm or support something that has already been suggested, particularly by providing evidence or witness testimony

synonym : confirm, substantiate, authenticate

(1) **corroborate** evidence, (2) **corroborate** story

The eyewitness testimony **corroborated** the suspect's alibi.

experiment

n. the scientific test conducted to observe what happens and gain new knowledge

synonym : experimentation, investigation

(1) **experiment** design, (2) series of **experiments**

His **experiments** showed highly positive results.

determinant

n. a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result

synonym : cause, factor, element

(1) environmental **determinant**, (2) a **determinant** of crop yields

One **determinant** of success is having a positive attitude and a strong work ethic.

assistant

n. someone who helps or supports someone else to do a job

synonym : aide, helper, associate

(1) an unwilling **assistant**, (2) **assistant** professor

An executive **assistant** director administers each branch.

hilltop

n. the top of a hill, rather than its sloping sides

synonym : peak, apex

(1) a windy **hilltop**, (2) **hilltop** residence

We looked down on the large wetland from the **hilltop**.

distant

adj. far away in space, time, or where you are; far apart in relevance, relationship, or kinship

synonym : far, isolated, remote

(1) a **distant** memory, (2) **distant** ancestors

The sun set over the crest of **distant** hills.

assume

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

synonym: guess, presume, suppose

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

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

discernible

adj. able to be perceived or recognized; clear or distinguishable

synonym: apparent, noticeable, distinguishable

(1) **discernible** pattern, (2) lack of **discernible** progress

There was a **discernible** change in the atmosphere when the boss walked into the room.

delay

v. to cause something to happen at a later time than originally intended or expected

synonym: block, adjourn, detain

(1) **delay** a flight three hours, (2) **delay** the new project

We **delayed** the payment because of an incorrect invoice.

magnitude

n. the extent, level, importance, or amount of something

synonym: size, extent, level

(1) a star of the first **magnitude**, (2) the **magnitude** of the disaster

The **magnitude** of the earthquake was measured at 7.8 on the Richter scale.

roughly

adv. approximately but not precisely; with a violent manner

synonym: approximately, more or less, around

(1) **roughly** explain my idea, (2) **roughly** speaking

Five miles is **roughly** similar to eight kilometers.

statistics

n. the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data
(1) **statistics** for cancer, (2) official **statistics**
The **statistics** demonstrate that poverty and unemployment are genuine problems.

relative

adj. considered and evaluated through comparison with something else
synonym: comparative, proximate, congeneric
(1) a remote **relative**, (2) **relative** factors
Most countries prohibit sexual activity between certain close **relatives**.

trivial

adj. of little value or importance
synonym: insignificant, minor, unimportant
(1) a **trivial** man, (2) for **trivial** reasons
The problem seemed **trivial** initially, but it became a significant issue.

equip

v. to provide a person or a place with the things that are needed for a particular purpose or activity
synonym: prepare, furnish, provide
(1) **equip** an army, (2) **equip** our children with some special skills
The construction company **equipped** the building with an earthquake-resistant device.

engage

v. to attract and keep someone's attention and interest; to participate in or obtain services of something
synonym: confront, employ, amuse
(1) **engage** in environmental protection activities,
(2) **engage** a new employee
Many multinational companies are **engaged** in the reconstruction of that country.

bunch

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

synonym : group, assemblage, bundle

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

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

notch

n. a V-shaped cut or indentation made in a surface or edge; a level of achievement or success; a point or degree of measurement or comparison

synonym : groove, slit, incision

(1) top- **notch** service, (2) score a **notch**

The cake was decorated with a **notch** to represent the birthday boy's age.

discrete

adj. separate and distinct; not continuous; individually distinguishable

synonym : separate, distinct, individual

(1) **discrete** metric space, (2) **discrete** variable

The company divided the tasks into **discrete** segments to increase efficiency.

pulse

n. the regular heartbeat as it sends blood around the body, especially when it is felt at the wrist or side of the neck; a solid regular vibration of sound, electric current, light, or other waves

synonym : beat, vibration, throb

(1) a weak **pulse**, (2) **pulse** waves

The cardiac monitor displays the intensity of your **pulse**.

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.

bounce

v. to cause to move up or away after hitting a surface; to spring back

synonym: bound, leap, spring

(1) **bounce** across the floor, (2) **bounce** back from failure

They will **bounce** between various emotional states.

spin

v. to cause something to rotate rapidly; to cause someone to feel dizzy or disoriented

synonym: rotate, twirl, swirl

(1) **spin** a top, (2) **spin** thread out of cotton

The tornado is **spinning** across the countryside, destroying everything in its path.

occlude

v. to obstruct or block something, usually a passage or opening, in a way that prevents normal flow or access

synonym: block, obstruct, close

(1) **occlude** a blood vessel, (2) **occlude** the ureteral orifice

The traffic jam **occluded** the road and caused a significant delay in the journey.

calculate

v. to judge or find out the amount or number of something by using mathematics

synonym: compute, figure, estimate

(1) **calculate** the distance, (2) **calculate** his credit score

He couldn't **calculate** the actual value of the artwork.

concept

n. an idea or principle associated with something abstract

synonym: idea, notion, vision

(1) learn new **concepts**, (2) **concept** car

One such rapidly growing **concept** is quantum cryptography.

branch

n. a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization

synonym: limb, twig, bough

(1) **branch** office, (2) a **branch** pipe

The **branch** of the tree had fallen and blocked the road.

explorer

n. a person who travels to places where no one or few people have been before to find out what is there

synonym: adventurer, trailblazer, scout

(1) team of **explorers**, (2) a polar **explorer**

Aboriginal people killed the **explorer** who entered the sacred land for them.

curiosity

n. a strong desire to know or learn about something

synonym: interest, inquisitiveness, novelty

(1) boundless **curiosity**, (2) satisfy my intellectual **curiosity**

We are motivated by **curiosity** rather than necessity.

Session 2: Spelling

1. ext_____te the results
v. to guess or think about what might happen or estimate something using the facts that you have now
2. nuclear ph_____s
n. the science of matter and energy and their interactions
3. cor_____te story
v. to confirm or support something that has already been suggested, particularly by providing evidence or witness testimony
4. academic al_____an
n. a candidate, competitor, or participant in a race, competition, or contest who finishes outside of the top positions and is not significantly successful or recognized
5. 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
6. 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
7. pa_____le energy
n. a small piece of something; a word or piece of a term with grammatical function but little or no significance
8. summer so_____ce
n. either of the two moments in a year when the sun is at its greatest distance from the celestial equator, resulting in the shortest or longest day of the year; the time of year associated with these events

ANSWERS: 1. extrapolate, 2. physics, 3. corroborate, 4. also-ran, 5. degree, 6. distance, 7. particle, 8. solstice

9. political cha_____er *n.* a person or thing that challenges or competes with someone or something else; a contestant in a competition or challenge
10. br___h office *n.* a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization
11. re___e a language *v.* to make something more pure, polished, cultured, or effective; to improve, perfect, or enhance through a process of purification or development
12. pu__e waves *n.* the regular heartbeat as it sends blood around the body, especially when it is felt at the wrist or side of the neck; a solid regular vibration of sound, electric current, light, or other waves
13. charged pa_____le *n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance
14. 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
15. de_____p a skill *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created

ANSWERS: 9. challenger, 10. branch, 11. refine, 12. pulse, 13. particle, 14. develop, 15. develop

16. top-no__h service *n.* a V-shaped cut or indentation made in a surface or edge; a level of achievement or success; a point or degree of measurement or comparison
17. mo_____nt of troops *n.* a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively
18. team of ex_____ers *n.* a person who travels to places where no one or few people have been before to find out what is there
19. 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
20. 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
21. fire st__k *v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
22. environmental det_____nt *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
23. at___c nucleus *adj.* of or relating to atom (= the smallest component of an element)

ANSWERS: 16. notch, 17. movement, 18. explorer, 19. beam, 20. discovery, 21. stick, 22. determinant, 23. atomic

24. theoretical ph_____st *n.* a scientist who specializes in the field of physics
25. as___e an important role *v.* to think or accept something to be true without having proof of it; to take or begin to have power; to begin to exhibit a specific quality or appearance
26. dis_____le pattern *adj.* able to be perceived or recognized; clear or distinguishable
27. wa___n wheel *n.* a four-wheeled vehicle used for transporting goods or people, often pulled by horses, oxen, or other animals; a compartment or container used for storage or transportation, such as a shopping cart or trolley
28. di_____er of an oval *n.* the length of a straight line passing through the center of a circle and connecting two points on the circumference
29. a person who is sus_____us *adj.* making you feel that someone has done something wrong, illegal, or dishonest without any evidence
30. the qu__t for truth *n.* a long or challenging search for something
31. satisfy my intellectual cu_____ty *n.* a strong desire to know or learn about something
32. non-ci_____ar orbit *adj.* shaped like a circle; having a round form
33. ed_____ed adult *adj.* having received a high standard of education

ANSWERS: 24. physicist, 25. assume, 26. discernible, 27. wagon, 28. diameter, 29. suspicious, 30. quest, 31. curiosity, 32. circular, 33. educated

34. a particle di_____er *n.* the length of a straight line passing through the center of a circle and connecting two points on the circumference
35. s__n thread out of cotton *v.* to cause something to rotate rapidly; to cause someone to feel dizzy or disoriented
36. at___c bomb *adj.* of or relating to atom (= the smallest component of an element)
37. sp___e of influence *n.* a round object or geometric shape that is three-dimensional and symmetrical around a central point; a particular aspect or scope of life or activity
38. c__t a charming eye *v.* to cause light or shadow to appear on a surface; to assign or choose someone such as an actor or representative, especially by selection process
39. series of exp_____nts *n.* the scientific test conducted to observe what happens and gain new knowledge
40. celebrate so_____ce *n.* either of the two moments in a year when the sun is at its greatest distance from the celestial equator, resulting in the shortest or longest day of the year; the time of year associated with these events
41. coffee sp_____ty *n.* an area or field in which a person or thing excels or specializes; a particular branch of study, occupation, or expertise; a special or unique skill or talent

ANSWERS: 34. diameter, 35. spin, 36. atomic, 37. sphere, 38. cast, 39. experiment, 40. solstice, 41. specialty

42. di_____er recovery *n.* an unexpected event or series of events that cause widespread damage, destruction, or loss of life
43. exp_____tal data *adj.* relating to or based on new ideas, forms, methods, etc. that have not been tried before, usually to find out what effect they have
44. a weak pu__e *n.* the regular heartbeat as it sends blood around the body, especially when it is felt at the wrist or side of the neck; a solid regular vibration of sound, electric current, light, or other waves
45. di_____te variable *adj.* separate and distinct; not continuous; individually distinguishable
46. permanent br__n damage *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
47. eq__p an army *v.* to provide a person or a place with the things that are needed for a particular purpose or activity
48. economic ge_____hy *n.* a field of science devoted to the study of the lands, features, inhabitants, and phenomena of the Earth
49. sp_____al shape *adj.* having the shape of a sphere; round, spherical, or ball-shaped in appearance
50. in_____a resistance *n.* the quality or state of being inactive, sluggish, or slow to move or act
51. ze__h of success *n.* the highest point or peak; the point in the sky directly above the observer; the culmination or apex of something

ANSWERS: 42. disaster, 43. experimental, 44. pulse, 45. discrete, 46. brain, 47. equip, 48. geography, 49. spherical, 50. inertia, 51. zenith

52. vertical a__s *n.* a real or imaginary straight line through a body or figure around which the object turns; a group of countries in special alliance
53. historical phe_____on *n.* something that exists and can be perceptible, especially one that is not fully understood
54. en___e a new employee *v.* to attract and keep someone's attention and interest; to participate in or obtain services of something
55. mu_____ly 5 and 6 *v.* to add a number to itself a specified number of times; to increase or cause to increase very much in number or quantity
56. academic li_____an *n.* a person who works in a library and is responsible for organizing and managing the collection of books and other materials
57. estimate pr_____e costs *adj.* sharply exact or accurate or delimited
58. laws of ph_____s *n.* the science of matter and energy and their interactions
59. interstate co_____ce *n.* the activity of buying and selling things, especially on a large scale
60. de__y a flight three hours *v.* to cause something to happen at a later time than originally intended or expected
61. ind_____nce ceremony *n.* freedom from another's or others' control or influence
62. ca_____te his credit score *v.* to judge or find out the amount or number of something by using mathematics

ANSWERS: 52. axis, 53. phenomenon, 54. engage, 55. multiply, 56. librarian, 57. precise, 58. physics, 59. commerce, 60. delay, 61. independence, 62. calculate

63. di___e the cake into two pieces *v.* to separate or cause to separate into parts or groups
64. the chief li_____an *n.* a person who works in a library and is responsible for organizing and managing the collection of books and other materials
65. b__l market *n.* a male bovine animal; an investor who has a positive outlook on the market or a particular investment and buys with the expectation of prices increasing
66. make a positive con_____ion *n.* the act of giving something, especially money, to a particular cause or organization; a voluntary gift as of money or service or ideas made to some worthwhile cause
67. ca_____te the distance *v.* to judge or find out the amount or number of something by using mathematics
68. oc_____e the ureteral orifice *v.* to obstruct or block something, usually a passage or opening, in a way that prevents normal flow or access
69. ro_____y explain my idea *adv.* approximately but not precisely; with a violent manner
70. Newton's law of in_____a *n.* the quality or state of being inactive, sluggish, or slow to move or act
71. en___e in environmental protection activities *v.* to attract and keep someone's attention and interest; to participate in or obtain services of something
72. st__k a key in a lock *v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material

ANSWERS: 63. divide, 64. librarian, 65. bull, 66. contribution, 67. calculate, 68. occlude, 69. roughly, 70. inertia, 71. engage, 72. stick

73. de__y the new project *v.* to cause something to happen at a later time than originally intended or expected
74. ze___h of popularity *n.* the highest point or peak; the point in the sky directly above the observer; the culmination or apex of something
75. 3D di____m *n.* a simplified illustration of the appearance, structure, or workings of something
76. a circular mo____nt *n.* a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively
77. ci____ar economy *adj.* shaped like a circle; having a round form
78. cor____te evidence *v.* to confirm or support something that has already been suggested, particularly by providing evidence or witness testimony
79. oc____e a blood vessel *v.* to obstruct or block something, usually a passage or opening, in a way that prevents normal flow or access
80. a di____t memory *adj.* far away in space, time, or where you are; far apart in relevance, relationship, or kinship
81. a st____ht line *adj.* extending or moving in one direction without bending or curving; having no deviations

ANSWERS: 73. delay, 74. zenith, 75. diagram, 76. movement, 77. circular, 78. corroborate, 79. occlude, 80. distant, 81. straight

82. s__n a top *v.* to cause something to rotate rapidly; to cause someone to feel dizzy or disoriented
83. st_____ht for two months *adj.* extending or moving in one direction without bending or curving; having no deviations
84. for tr_____l reasons *adj.* of little value or importance
85. 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
86. boundless cu_____ty *n.* a strong desire to know or learn about something
87. a det_____nt of crop yields *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
88. cha_____er brand *n.* a person or thing that challenges or competes with someone or something else; a contestant in a competition or challenge
89. learn new co_____ts *n.* an idea or principle associated with something abstract
90. pr_____e analyses *adj.* sharply exact or accurate or delimited
91. bo___e across the floor *v.* to cause to move up or away after hitting a surface; to spring back
92. a con_____ly varying mind *adv.* all the time
93. global di_____er *n.* an unexpected event or series of events that cause widespread damage, destruction, or loss of life

ANSWERS: 82. spin, 83. straight, 84. trivial, 85. degree, 86. curiosity, 87. determinant, 88. challenger, 89. concept, 90. precise, 91. bounce, 92. constantly, 93. disaster

94. ext_____te animal dose *v.* to guess or think about what might happen or estimate something using the facts that you have now
95. a tr_____l man *adj.* of little value or importance
96. a br____h pipe *n.* a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization
97. an unwilling as_____nt *n.* someone who helps or supports someone else to do a job
98. a windy hi_____p *n.* the top of a hill, rather than its sloping sides
99. im____t goods *v.* to bring goods or services into a country from another country; to transfer electronic data into a database or document;
100. the ma_____de of the disaster *n.* the extent, level, importance, or amount of something
101. a friendly con_____ion *n.* an informal talk between two or more people to exchange their views, ideas, information, etc.
102. co_____m a transaction *v.* to support or establish the truth or certainty of something previously believed or suspected to be the case
103. sh____w cast *n.* a dark area or shape cast by an object blocking the passage of light; an area in darkness or shade; a reflected image or copy of something; a person, activity, or influence that follows or accompanies someone or something closely and persistently, often in a secretive or ominous manner

ANSWERS: 94. extrapolate, 95. trivial, 96. branch, 97. assistant, 98. hilltop, 99. import, 100. magnitude, 101. conversation, 102. confirm, 103. shadow

104. natural phe_____on *n.* something that exists and can be perceptible, especially one that is not fully understood
105. financial ind_____nce *n.* freedom from another's or others' control or influence
106. re_____ve factors *adj.* considered and evaluated through comparison with something else
107. 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
108. chest cir_____nce *n.* the distance around the outside of a circular or curved object or area
109. a coordinate a__s *n.* a real or imaginary straight line through a body or figure around which the object turns; a group of countries in special alliance
110. official sta_____cs *n.* the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data
111. the local chamber of co_____ce *n.* the activity of buying and selling things, especially on a large scale
112. a bu__h of schoolgirls *n.* a grouping of several similar things which are growing or fastened together
113. a star of the first ma_____de *n.* the extent, level, importance, or amount of something
114. in a di_____m *n.* a simplified illustration of the appearance, structure, or workings of something

ANSWERS: 104. phenomenon, 105. independence, 106. relative, 107. distance, 108. circumference, 109. axis, 110. statistics, 111. commerce, 112. bunch, 113. magnitude, 114. diagram

115. bo___e back from failure *v.* to cause to move up or away after hitting a surface; to spring back
116. a polar ex_____er *n.* a person who travels to places where no one or few people have been before to find out what is there
117. di_____te metric space *adj.* separate and distinct; not continuous; individually distinguishable
118. ed_____ed speech *adj.* having received a high standard of education
119. station wa__n *n.* a four-wheeled vehicle used for transporting goods or people, often pulled by horses, oxen, or other animals; a compartment or container used for storage or transportation, such as a shopping cart or trolley
120. c__t a ballot *v.* to cause light or shadow to appear on a surface; to assign or choose someone such as an actor or representative, especially by selection process
121. co_____t car *n.* an idea or principle associated with something abstract
122. 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
123. ref_____on question *n.* the act of thinking deeply about something, or the ability to think deeply; the image of something that is seen in a mirror or other reflective surface

ANSWERS: 115. bounce, 116. explorer, 117. discrete, 118. educated, 119. wagon, 120. cast, 121. concept, 122. beam, 123. reflection

124. class obs_____on day *n.* the act or activity of carefully examining or monitoring something or someone
125. con_____ion to society *n.* the act of giving something, especially money, to a particular cause or organization; a voluntary gift as of money or service or ideas made to some worthwhile cause
126. talented ph_____st *n.* a scientist who specializes in the field of physics
127. the cr_____or's claims *n.* a person, company, etc. to whom a debtor owes money
128. co_____m the diagnosis *v.* to support or establish the truth or certainty of something previously believed or suspected to be the case
129. as___e a lousy attitude to his boss *v.* to think or accept something to be true without having proof of it; to take or begin to have power; to begin to exhibit a specific quality or appearance
130. a con_____ly innovative enterprise *adv.* all the time
131. lack of dis_____le progress *adj.* able to be perceived or recognized; clear or distinguishable
132. sports al_____an *n.* a candidate, competitor, or participant in a race, competition, or contest who finishes outside of the top positions and is not significantly successful or recognized
133. a bu__h of trees *n.* a grouping of several similar things which are growing or fastened together
134. weak bo__n *n.* a type of subatomic particle that follows Bose-Einstein statistics, which determine how identical particles with integer spins behave

ANSWERS: 124. observation, 125. contribution, 126. physicist, 127. creditor, 128. confirm, 129. assume, 130. constantly, 131. discernible, 132. also-ran, 133. bunch, 134. boson

135. im___t a style sheet *v.* to bring goods or services into a country from another country; to transfer electronic data into a database or document;
136. Higgs bo__n *n.* a type of subatomic particle that follows Bose-Einstein statistics, which determine how identical particles with integer spins behave
137. inactive ma_____ry *n.* a group of large machines or the components of a machine that make it work; social institution functions or structure for doing something
138. regional sp_____ty *n.* an area or field in which a person or thing excels or specializes; a particular branch of study, occupation, or expertise; a special or unique skill or talent
139. di_____t ancestors *adj.* far away in space, time, or where you are; far apart in relevance, relationship, or kinship
140. heavy ma_____ry *n.* a group of large machines or the components of a machine that make it work; social institution functions or structure for doing something
141. a remote re_____ve *adj.* considered and evaluated through comparison with something else
142. score a no__h *n.* a V-shaped cut or indentation made in a surface or edge; a level of achievement or success; a point or degree of measurement or comparison

ANSWERS: 135. import, 136. boson, 137. machinery, 138. specialty, 139. distant, 140. machinery, 141. relative, 142. notch

143. obs_____on instrument *n.* the act or activity of carefully examining or monitoring something or someone
144. b__l fighter *n.* a male bovine animal; an investor who has a positive outlook on the market or a particular investment and buys with the expectation of prices increasing
145. sp_____al object *adj.* having the shape of a sphere; round, spherical, or ball-shaped in appearance
146. mu_____ly about hundredfold *v.* to add a number to itself a specified number of times; to increase or cause to increase very much in number or quantity
147. ge_____hy class *n.* a field of science devoted to the study of the lands, features, inhabitants, and phenomena of the Earth
148. exp_____nt design *n.* the scientific test conducted to observe what happens and gain new knowledge
149. hi_____p residence *n.* the top of a hill, rather than its sloping sides
150. ro_____y speaking *adv.* approximately but not precisely; with a violent manner
151. common in_____on *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
152. bankrupt cr_____or *n.* a person, company, etc. to whom a debtor owes money
153. angle of cir_____nce *n.* the distance around the outside of a circular or curved object or area
154. con_____ion in English *n.* an informal talk between two or more people to exchange their views, ideas, information, etc.

ANSWERS: 143. observation, 144. bull, 145. spherical, 146. multiply, 147. geography, 148. experiment, 149. hilltop, 150. roughly, 151. invention, 152. creditor, 153. circumference, 154. conversation

155. as_____nt professor *n.* someone who helps or supports someone else to do a job
156. photon ref_____on *n.* the act of thinking deeply about something, or the ability to think deeply; the image of something that is seen in a mirror or other reflective surface
157. business sp____e *n.* a round object or geometric shape that is three-dimensional and symmetrical around a central point; a particular aspect or scope of life or activity
158. re____e oil *v.* to make something more pure, polished, cultured, or effective; to improve, perfect, or enhance through a process of purification or development
159. on a qu__t for happiness *n.* a long or challenging search for something
160. 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
161. basic br__n function *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
162. the in_____on of new techniques *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
163. exp_____tal design *adj.* relating to or based on new ideas, forms, methods, etc. that have not been tried before, usually to find out what effect they have

ANSWERS: 155. assistant, 156. reflection, 157. sphere, 158. refine, 159. quest, 160. discovery, 161. brain, 162. invention, 163. experimental

164. sta_____cs for cancer *n.* the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data
165. report sus_____us activity *adj.* making you feel that someone has done something wrong, illegal, or dishonest without any evidence
166. eq__p our children with some special skills *v.* to provide a person or a place with the things that are needed for a particular purpose or activity
167. sh___w puppetry *n.* a dark area or shape cast by an object blocking the passage of light; an area in darkness or shade; a reflected image or copy of something; a person, activity, or influence that follows or accompanies someone or something closely and persistently, often in a secretive or ominous manner
168. di___e money equally *v.* to separate or cause to separate into parts or groups

ANSWERS: 164. statistics, 165. suspicious, 166. equip, 167. shadow, 168. divide

Session 3: Fill in the Blanks

1. The earth's _____ of rotation is tilted 66.5 degrees to the ecliptic plane.
n. a real or imaginary straight line through a body or figure around which the object turns; a group of countries in special alliance

2. The cake was decorated with a _____ to represent the birthday boy's age.
n. a V-shaped cut or indentation made in a surface or edge; a level of achievement or success; a point or degree of measurement or comparison

3. The _____ of the earthquake was measured at 7.8 on the Richter scale.
n. the extent, level, importance, or amount of something

4. He was sick for five _____ days.
adj. extending or moving in one direction without bending or curving; having no deviations

5. He is drawing a _____ illustrating how the equipment operates.
n. a simplified illustration of the appearance, structure, or workings of something

6. The _____ of audit formally issued a business improvement order.
n. a group of large machines or the components of a machine that make it work; social institution functions or structure for doing something

7. There is nothing more valuable than _____ and freedom.
n. freedom from another's or others' control or influence

8. The Earth is a nearly _____ planet.
adj. having the shape of a sphere; round, spherical, or ball-shaped in appearance

ANSWERS: 1. axis, 2. notch, 3. magnitude, 4. straight, 5. diagram, 6. machinery, 7. independence, 8. spherical

9. The tornado is _____ across the countryside, destroying everything in its path.
- v.* to cause something to rotate rapidly; to cause someone to feel dizzy or disoriented
10. We _____ the payment because of an incorrect invoice.
- v.* to cause something to happen at a later time than originally intended or expected
11. The circus _____ was brightly painted with pictures of the animals inside.
- n.* a four-wheeled vehicle used for transporting goods or people, often pulled by horses, oxen, or other animals; a compartment or container used for storage or transportation, such as a shopping cart or trolley
12. Five miles is _____ similar to eight kilometers.
- adv.* approximately but not precisely; with a violent manner
13. The product is still in the _____ stage.
- adj.* relating to or based on new ideas, forms, methods, etc. that have not been tried before, usually to find out what effect they have
14. He couldn't _____ the actual value of the artwork.
- v.* to judge or find out the amount or number of something by using mathematics
15. Carbon has an _____ mass of 12.
- adj.* of or relating to atom (= the smallest component of an element)
16. The following example _____ that the capacity of each battery is the same.
- v.* to think or accept something to be true without having proof of it; to take or begin to have power; to begin to exhibit a specific quality or appearance

ANSWERS: 9. spinning, 10. delayed, 11. wagon, 12. roughly, 13. experimental, 14. calculate, 15. atomic, 16. assumes

17. You _____ a bill in the change machine, and the coins pop out.
- v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
18. The object's _____ kept it moving in a straight line until acted upon by an outside force.
- n.* the quality or state of being inactive, sluggish, or slow to move or act
19. The _____ of the tree had fallen and blocked the road.
- n.* a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization
20. The winter _____ marks the shortest day of the year in the Northern Hemisphere.
- n.* either of the two moments in a year when the sun is at its greatest distance from the celestial equator, resulting in the shortest or longest day of the year; the time of year associated with these events
21. The company is working to _____ its production process to be more efficient.
- v.* to make something more pure, polished, cultured, or effective; to improve, perfect, or enhance through a process of purification or development
22. The construction company _____ the building with an earthquake-resistant device.
- v.* to provide a person or a place with the things that are needed for a particular purpose or activity
23. Excellent speech is a characteristic of an _____ man.
- adj.* having received a high standard of education

ANSWERS: 17. stick, 18. inertia, 19. branch, 20. solstice, 21. refine, 22. equipped, 23. educated

24. The company _____ raw materials from other countries to manufacture its products.
- v.* to bring goods or services into a country from another country; to transfer electronic data into a database or document;
25. Your _____ reflects your thoughts.
- n.* an informal talk between two or more people to exchange their views, ideas, information, etc.
26. 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
27. 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
28. The eyewitness testimony _____ the suspect's alibi.
- v.* to confirm or support something that has already been suggested, particularly by providing evidence or witness testimony
29. One such rapidly growing _____ is quantum cryptography.
- n.* an idea or principle associated with something abstract
30. 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
31. We carefully examine each _____ transaction report we receive.
- adj.* making you feel that someone has done something wrong, illegal, or dishonest without any evidence

ANSWERS: 24. imports, 25. conversation, 26. discovery, 27. degree, 28. corroborated, 29. concept, 30. distance, 31. suspicious

32. The company was once a frontrunner but is now considered an _____ in the industry.
- n.* a candidate, competitor, or participant in a race, competition, or contest who finishes outside of the top positions and is not significantly successful or recognized
33. Necessity is the mother of _____.
- n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
34. 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
35. An executive _____ director administers each branch.
- n.* someone who helps or supports someone else to do a job
36. Aboriginal people killed the _____ who entered the sacred land for them.
- n.* a person who travels to places where no one or few people have been before to find out what is there
37. A rainbow is a natural _____.
- n.* something that exists and can be perceptible, especially one that is not fully understood
38. The _____ shape of the planet makes it difficult to determine which direction is north.
- adj.* shaped like a circle; having a round form
39. The tree cast a _____ over the picnic area, providing relief from the sun.
- n.* a dark area or shape cast by an object blocking the passage of light; an area in darkness or shade; a reflected image or copy of something; a person, activity, or influence that follows or accompanies someone or something closely and persistently, often in a secretive or ominous manner

ANSWERS: 32. also-ran, 33. invention, 34. particles, 35. assistant, 36. explorer, 37.

phenomenon, 38. circular, 39. shadow

40. Most countries prohibit sexual activity between certain close _____.
adj. considered and evaluated through comparison with something else
41. This predictive model mechanically _____ past trends into the future.
v. to guess or think about what might happen or estimate something using the facts that you have now
42. Einstein was an outstanding and famous _____ of the 20th century.
n. a scientist who specializes in the field of physics
43. The problem seemed _____ initially, but it became a significant issue.
adj. of little value or importance
44. Reaching the _____ of his career was a long and difficult climb, but it was worth it.
n. the highest point or peak; the point in the sky directly above the observer; the culmination or apex of something
45. The sun set over the crest of _____ hills.
adj. far away in space, time, or where you are; far apart in relevance, relationship, or kinship
46. There was a _____ change in the atmosphere when the boss walked into the room.
adj. able to be perceived or recognized; clear or distinguishable
47. We are motivated by _____ rather than necessity.
n. a strong desire to know or learn about something

ANSWERS: 40. relatives, 41. extrapolates, 42. physicist, 43. trivial, 44. zenith, 45. distant, 46. discernible, 47. curiosity

48. The _____ in the boxing match put up a good fight.
- n.* a person or thing that challenges or competes with someone or something else; a contestant in a competition or challenge
49. The search for new _____ particles is one of the most exciting areas of modern physics.
- n.* a type of subatomic particle that follows Bose-Einstein statistics, which determine how identical particles with integer spins behave
50. 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
51. The _____ demonstrate that poverty and unemployment are genuine problems.
- n.* the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data
52. The chef's _____ was a delicious seafood pasta dish that everyone loved.
- n.* an area or field in which a person or thing excels or specializes; a particular branch of study, occupation, or expertise; a special or unique skill or talent
53. I asked the lawyer to initiate _____ negotiations for voluntary liquidation.
- n.* a person, company, etc. to whom a debtor owes money
54. She did well on her _____ exam.
- n.* a field of science devoted to the study of the lands, features, inhabitants, and phenomena of the Earth

ANSWERS: 48. challenger, 49. boson, 50. develop, 51. statistics, 52. specialty, 53. creditor, 54. geography

55. This accident _____ a dark shadow over their lives.
- v.* to cause light or shadow to appear on a surface; to assign or choose someone such as an actor or representative, especially by selection process
56. The _____ of the earth is divided into several layers including the crust, mantle, and core.
- n.* a round object or geometric shape that is three-dimensional and symmetrical around a central point; a particular aspect or scope of life or activity
57. _____ a number by itself twice.
- v.* to add a number to itself a specified number of times; to increase or cause to increase very much in number or quantity
58. The _____ of the earth is approximately 24,901 miles.
- n.* the distance around the outside of a circular or curved object or area
59. X-rays revealed a small tumor in his _____.
- n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
60. Many multinational companies are _____ in the reconstruction of that country.
- v.* to attract and keep someone's attention and interest; to participate in or obtain services of something
61. His _____ to the charity was a generous donation of money.
- n.* the act of giving something, especially money, to a particular cause or organization; a voluntary gift as of money or service or ideas made to some worthwhile cause
62. The _____ response team worked around the clock to aid those affected by the earthquake.
- n.* an unexpected event or series of events that cause widespread damage, destruction, or loss of life

ANSWERS: 55. cast, 56. sphere, 57. Multiply, 58. circumference, 59. brain, 60. engaged, 61. contribution, 62. disaster

63. The traffic jam _____ the road and caused a significant delay in the journey.
v. to obstruct or block something, usually a passage or opening, in a way that prevents normal flow or access
64. The content is _____ and informative for me.
adj. sharply exact or accurate or delimited
65. One _____ of success is having a positive attitude and a strong work ethic.
n. a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
66. The teacher asked the students to write a _____ on the book they had just read.
n. the act of thinking deeply about something, or the ability to think deeply; the image of something that is seen in a mirror or other reflective surface
67. The farmer raised a _____ on his ranch for breeding purposes.
n. a male bovine animal; an investor who has a positive outlook on the market or a particular investment and buys with the expectation of prices increasing
68. The cardiac monitor displays the intensity of your _____.
n. the regular heartbeat as it sends blood around the body, especially when it is felt at the wrist or side of the neck; a solid regular vibration of sound, electric current, light, or other waves
69. The mobile application industry is _____ changing.
adv. all the time
70. He studied the _____ of radiation.
n. the science of matter and energy and their interactions

ANSWERS: 63. occluded, 64. precise, 65. determinant, 66. reflection, 67. bull, 68. pulse, 69. constantly, 70. physics

71. One bad apple spoils the whole _____.

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

72. 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

73. The company divided the tasks into _____ segments to increase efficiency.

adj. separate and distinct; not continuous; individually distinguishable

74. His _____ showed highly positive results.

n. the scientific test conducted to observe what happens and gain new knowledge

75. The _____ of the dancers on stage was graceful and elegant.

n. a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively

76. They will _____ between various emotional states.

v. to cause to move up or away after hitting a surface; to spring back

77. In the hospital, she will remain under constant _____.

n. the act or activity of carefully examining or monitoring something or someone

78. We looked down on the large wetland from the _____.

n. the top of a hill, rather than its sloping sides

79. Please write to _____ your reservation.

v. to support or establish the truth or certainty of something previously believed or suspected to be the case

ANSWERS: 71. bunch, 72. beam, 73. discrete, 74. experiments, 75. movement, 76. bounce, 77. observation, 78. hilltop, 79. confirm

80. That adventurer traveled in _____ of buried treasure.

n. a long or challenging search for something

81. Draw a circle five centimeters in _____.

n. the length of a straight line passing through the center of a circle and connecting two points on the circumference

82. Can you _____ 123321 by eleven?

v. to separate or cause to separate into parts or groups

83. This company has invested heavily in Internet _____.

n. the activity of buying and selling things, especially on a large scale

84. The _____ duties included organizing and cataloging the library's collection.

n. a person who works in a library and is responsible for organizing and managing the collection of books and other materials

ANSWERS: 80. quest, 81. diameter, 82. divide, 83. commerce, 84. librarian's