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Tom Griffiths: 3 ways to make better decisions -- by thinking like a computer | TED Talk

https://www.ted.com/talks/tom_griffiths_3_ways_to_make_better_decisions_by_thinking_like_a_computer

All Words

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Session 1: Word List

cruel

adj. feeling or showing pleasure in causing pain or suffering to others

synonym : heartless, sadistic, vicious

(1) a **cruel** and unusual punishment, (2) **cruel** joke

The dictator was known for his **cruel** and oppressive regime.

maximum

adj. the largest or greatest amount or value attainable or attained

synonym : peak, top, highest

(1) **maximum** limit, (2) the **maximum** speed

The **maximum** temperature recorded this summer was higher than average.

probabilistic

adj. characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks

synonym : probable, statistical, likely

(1) **probabilistic** model, (2) **probabilistic** approach

In a **probabilistic** system, the outcome is uncertain and can vary based on chance.

optimal

adj. the best; most likely to be successful or advantageous

synonym : optimum, desirable, favorable

(1) achieve **optimal** health, (2) **optimal** for intellectual growth

Wild animals need to go forward with the **optimal** action to survive.

extensive

adj. covering a large area; having a wide range

synonym: ample, comprehensive, vast

(1) **extensive** experience, (2) have **extensive** vocabulary

The incident attracted **extensive** media coverage throughout the world.

mathematics

n. the science dealing with the logic of quantities, shapes, spaces, and arrangement

synonym: arithmetic, calculation, calculus

(1) a good grounding in **mathematics**, (2) **mathematics** competition

He has a flair for **mathematics**.

computation

n. the act or process of calculating something, especially an answer or amount, by using a machine or calculator

synonym: calculation, estimation, arithmetic

(1) parallel **computation**, (2) theory of **computation**

The researcher demonstrated the superiority of quantum **computation** in several mathematical tasks.

cognitive

adj. of or relating to mental processes of understanding

synonym: perceivable, mind, mental

(1) improve **cognitive** function, (2) research on **cognitive** psychology

His **cognitive** faculties were getting worse because of a lack of sleep.

amazing

adj. extremely surprising, especially in a way that you like or admire

synonym: exceptional, extraordinary, wonderful

(1) **amazing** advances, (2) the most **amazing** feeling

The golfer recorded an **amazing** distance.

dismal

adj. depressing or dreary; causing or showing unhappiness or despair

synonym: gloomy, depressing, dreary

(1) **dismal** failure, (2) **dismal** performance

The weather was so **dismal** that we decided to stay indoors all day.

structure

n. the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts

synonym: construction, architecture, establishment

(1) the **structure** of a machine, (2) **structure** and function of the brain

The organizational **structure** of start-ups is often flat and straightforward.

decision-maker

n. a person who makes important decisions, especially at a high level in an organization

(1) policy **decision-maker**, (2) act as a **decision-maker**

A wealth of information does not always have a positive impact on **decision-makers**.

motivation

n. the reason or enthusiasm for acting or behaving in a particular way

synonym: inspiration, incentive, reason

(1) understand his **motivation**, (2) **motivation** for a change

A significant amount of **motivation** is required to be a teacher.

overly

adv. to a greater degree than is appropriate or desirable

synonym: excessively, too much

(1) **overly** excessive, (2) **overly** unnecessary

The movie was **overly** dramatic, with exaggerated emotions and cliched plot twists.

cerebral

adj. relating to the brain or intellect; intellectual or studious rather than emotional or physical

synonym : brain, mental, intellectual

(1) **cerebral** palsy, (2) **cerebral** cortex

The patient experienced a **cerebral** hemorrhage and required surgery.

decision

n. the act or process of making up someone's mind about something; a choice or judgment reached after considering options

synonym : choice, determination, judgment

(1) **decision** authority, (2) a selfish **decision**

She was struggling to make a **decision** between two job offers.

preference

n. a stronger liking or interest for something or someone than another thing or person

synonym : taste, choice, affection

(1) his meal **preferences**, (2) a particular **preference** for Chinese art

Her **preference** is comfortable clothing over fashionable ones.

exhausted

adj. extremely tired

synonym : drowsy, depleted, fatigued

(1) the **exhausted** food sources, (2) **exhausted** parents

The **exhausted** runner fell to the ground and gasped.

decide

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

synonym : choose, determine, settle

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

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

consult

v. to seek or get advice or information from a person, book, or other source having special knowledge on a particular

subject

synonym : confer, consider, see

(1) regularly **consult** with a doctor, (2) **consult** my wallet
Always **consult** a lawyer before launching a business.

stereotype

n. a fixed and unvarying idea or image that people have about what someone or something is like, but which is often not true in reality and may cause hurt and offense

(1) avoid **stereotype**, (2) negative **stereotypes**

Changing **stereotypes** about LGBTQ requires considerable effort.

deterministic

adj. characterized by an assumption of cause and effect and the absence of chance or randomness, often used to describe scientific or engineering calculations

synonym : predictable, predetermined, certain

(1) **deterministic** approach, (2) **deterministic** system

The **deterministic** algorithm always produces the same result for a given input.

exhaustive

adj. comprehensive and thorough; totally complete; leaving no stone unturned

synonym : thorough, complete, comprehensive

(1) **exhaustive** study, (2) **exhaustive** review

The team conducted an **exhaustive** search for the missing hiker, but unfortunately, she was never found.

rev

n. a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute

synonym : revolution, RPM, speed

(1) low- **rev** engine, (2) **rev** up the crowd

He stepped on the gas pedal, and the engine released a loud **rev**.

backward

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

synonym : back, rearward, in reverse

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

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

explore

v. to travel to or penetrate an area or a country to learn about it; to thoroughly examine a subject or a possibility to learn more about it

synonym : analyze, delve into, examine

(1) **explore** the world, (2) **explore** our options

The management must **explore** strategies to increase office security.

exploit

v. to make full use of and gain an advantage from resources, opportunities, etc.

synonym : use, abuse, control

(1) **exploit** a security hole, (2) **exploit** a valuable opportunity

We **exploit** our mining resources to strengthen our national power.

trade-off

n. a balance achieved between two desirable but incompatible features; an exchange that occurs as a compromise

synonym : compromise, balance, exchange

(1) **trade-off** problem, (2) environmental **trade-off**

There was a **trade-off** between speed and accuracy in the task.

progression

n. the act or process of changing to the next stage or phase or moving forward

synonym : advancement, development, evolution

(1) **progression** of civilization, (2) **progression** of disease

The company has made great strides in its **progression** toward sustainability.

insight

n. the ability to gain an accurate and deep understanding of people or situations; an accurate and deep understanding of what something is like

synonym : wisdom, discernment, understanding

(1) a profound **insight**, (2) share my **insights**

We gained various **insights** by analyzing the vast amount of data owned by the company.

improve

v. to make or become better

synonym : enhance, ameliorate, enrich

(1) **improve** a process, (2) **improve** the test score

We want to **improve** ties between our two countries.

opportune

adj. suitable or happening at a time that is suitable or convenient for a particular purpose

synonym : suitable, timely, practical

(1) **opportune** occasion, (2) an **opportune** remark

The phone rang at the most **opportune** time.

principle

n. a fundamental law or truth that explains or controls how something happens or works

synonym : rule, creed, code

(1) **principle** of treatment, (2) **principle** in business

Efficiency isn't an essential **principle** here; fairness is.

reputation

n. the general opinion that people have about someone or something, especially when this is based on their previous experiences or behaviors

synonym : fame, standing, esteem

(1) **reputation** risk, (2) cloud his **reputation**

She has a good **reputation** for being one of the best chefs in the city.

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.

phase

n. any stage in a series of events, change, or development

synonym : degree, stage, step

(1) enter on the last **phase**, (2) two- **phase** structure

The era of the industrial revolution was a crucial **phase** of history.

delicious

adj. exceptionally pleasing to taste or smell

synonym : appetizing, mouthwatering, delectable

(1) **delicious** breeze, (2) variety of **delicious** foods

We could grill the meat in a **delicious** way.

spectrum

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

synonym : range, scale, spread

(1) a broad **spectrum** of opinion, (2) infrared **spectrum**

This device displayed the speech **spectrum** spectrographically.

lifetime

n. the duration of someone's life or something's existence;

synonym : lifespan, duration

(1) **lifetime** benefits, (2) **lifetime** ban from the sport

She had lived through two world wars in her **lifetime**.

relax

v. to become or cause someone to become less active or tense and calmer

synonym : soften, comfort, soothe

(1) **relax** a series of muscles, (2) **relax** at home

The rules were **relaxed** after the new executive arrived.

wardrobe

n. a collection or set of clothing, especially for a particular occasion or purpose; a piece of furniture designed for

storing clothes or personal belongings

synonym : clothing, attire, closet

(1) walk-in **wardrobe**, (2) minimalist **wardrobe**

Her **wardrobe** selection included several pieces from high-end designer brands.

agon

n. a contest or competition, typically one in which participants exert themselves physically or mentally to achieve victory or surpass others

synonym : struggle, conflict, fight

(1) emotional **agon**, (2) an **agon** of creativity

The weightlifting competition brought together athletes from different countries for an international **agon**.

doe

n. a mature female of mammals of which the male is called a buck, such as a deer or a rabbit

synonym : rabbit, bunny, hare

(1) **doe** rabbit, (2) buck and **doe**

Hunters use a whistle that makes the **doe** sound to lure stags.

function

n. the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose

synonym : purpose, mapping, job

(1) **function** properly, (2) immune **function**

The brain is an incredibly complex organ that controls the body's **function**.

duplicate

v. to make or be an exact copy of something; to reproduce something

synonym : copy, replicate, reproduce

(1) **duplicate** my efforts, (2) **duplicate** his action

I need to **duplicate** this document before I send it.

chip

n. a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat

synonym: flake, fragment, chunk

(1) a **chip** of wood, (2) I don't care a **chip**

We can use this campaign as a bargaining **chip** in the negotiations.

efficiently

adv. in a way that produces maximum output with minimum effort or expense

synonym: expeditiously, skillfully, ably

(1) **efficiently** combined, (2) develop software more **efficiently**

We can resolve support requests quickly and **efficiently** by utilization of AI.

strategy

n. a detailed plan of action designed to achieve a long-term or overall goal.

synonym: approach, procedure, scenario

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

Our plan includes a comprehensive marketing **strategy**.

random

adj. made, done, or happening without method, conscious decision, or any regular pattern

synonym: incidental, arbitrary, unanticipated

(1) a **random** choice, (2) bombs fell at **random**

To find drunk drivers, police conduct **random** tests.

FIFO

n. (an acronym for "first in, first out") a method of accounting or inventory management in which the first items acquired or produced are also the first items to be sold or used

synonym: first-in first-out, queue

(1) **FIFO** algorithm, (2) **FIFO** stock rotation

The warehouse uses a **FIFO** system to keep track of inventory.

LIFO

n. (an acronym for "last in, first out") a method of accounting or inventory management in which the most recent items acquired or produced are the first to be sold or used

synonym : last-in first-out, stack

(1) **LIFO** accounting practices, (2) **LIFO** basis

The company uses a **LIFO** inventory method to keep track of its stock.

logic

n. a way of thinking or reasoning conducted or evaluated by strict validity principles; the study of correct reasoning or good arguments

synonym : reasoning, reason, ratiocination

(1) an indisputable **logic**, (2) a demonstration in **logic**

There's no **logic** in his description.

recognize

v. to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered

synonym : acknowledge, identify, admit

(1) **recognize** talent, (2) **recognize** achievement

It's important to **recognize** your strengths and weaknesses.

economical

adj. providing a satisfactory return on the money, time, or effort; not using more money, fuel, etc. than necessary

synonym : frugal, thrifty, parsimonious

(1) **economical** use of her time, (2) an **economical** meal

It is more **economical** to wash your plastic bottle and reuse it.

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**.

property

n. a thing or things that belong to someone

synonym: belongings, possessions, equity

(1) a man of **property**, (2) chemical **property**

He stood to inherit a million-dollar **property**.

cardboard

n. a stiff, thick material made from compressed paper pulp used to make boxes and other packaging materials

synonym: corrugated board, paperboard

(1) **cardboard** box, (2) **cardboard** cutout

I made a **cardboard** box to store my winter clothes in.

implement

v. to put a decision, plan, or system into effect

synonym: execute, enforce, put through

(1) **implement** a corporate strategy, (2) **implement** security measures

The government promised to **implement** a new system to control the financial crisis.

pile

n. a collection of objects positioned one on top of another; a large sum of something, such as money

synonym: accumulation, heap, stack

(1) a sand **pile**, (2) the height of a **pile**

After the party, they had to clean up **piles** of dirty dishes.

typical

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

synonym: characteristic, usual, distinctive

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

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

malign

v. to speak or write about someone or something in a harmful or critical way; (adjective) evil or harmful in nature or influence

synonym: defame, vilify, (adjective) evil

(1) **malign** influence, (2) **malign** the politician in the media

The article **maligned** the company's reputation with false

accusations.

messy

adj. disorganized and untidy

synonym : cluttered, disorganized, untidy

(1) **messy** data, (2) **messy** handling

His **messy** bedroom is always a source of frustration for his mother.

disorganize

v. to disrupt or destroy the systematic order or function of something

synonym : disrupt, demobilize, derange

(1) **disorganized** the party, (2) **disorganize** the whole country

His betrayal **disorganized** the company completely.

solace

n. comfort or consolation in a time of distress, sadness, or disappointment; (verb) to comfort or console someone in a time of distress, loss, or suffering

synonym : comfort, condolence, peace

(1) **solace** in music, (2) offer **solace**

The grieving widow found **solace** in reading her late husband's letters.

algorithm

n. a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation

synonym : logic, method, rule

(1) the RSA **algorithm**, (2) **algorithm** for image processing

We can evaluate the performance of an **algorithm** in terms of computation time.

constraint

n. a limit or restriction on something, such as an action, behavior, or thought

synonym : limitation, restriction, bound

(1) **constraint** on business activity, (2) strict time

constraints

The budget **constraint** forced them to make difficult

decisions.

approximate

adj. nearly accurate or correct, but not completely so
synonym : rough, close, near

(1) linear **approximate** equation, (2) **approximate** time
The **approximate** cost of the project was estimated to be around \$500,000.

organ

n. a part of the body of an animal or plant that has a particular purpose and performs a specific job
synonym : function, structure

(1) **organ** bleeding, (2) damage to internal **organs**
These infections have the potential to impact practically every **organ** system.

guarantee

v. to promise something will happen formally, especially that certain conditions about a product, service, or transaction would be met
synonym : assure, promise, warrant

(1) **guarantee** a high quality, (2) **guarantee** women equality
We cannot **guarantee** enough raw material sources.

outcome

n. the result or effect of an action, event, etc.
synonym : result, consequence, effect

(1) improved student **outcomes**, (2) a desirable **outcome**
They awaited news of the **outcome** of the election.

ultimate

adj. furthest or highest in degree or order
synonym : highest, maximum, foremost

(1) the **ultimate** goal in life, (2) the **ultimate** luxury
Management must take **ultimate** responsibility for the accident.

forgiveness

n. the act of stopping feeling angry or resentful towards someone for a mistake or offense with compassion
synonym : pardon, amnesty, compassion

(1) **forgiveness** of liabilities, (2) beg for **forgiveness**
He gained debt **forgiveness**.

process

n. a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

synonym: procedure, method, system

(1) **process** improvement, (2) decision-making **process**
The **process** for applying for a visa can be lengthy and complicated.

involve

v. to include or affect someone or something as a necessary part of something else

synonym: implicate, include, engage

(1) **involve** a lot of paperwork, (2) **involve** a high degree of risk
The investigation **involves** several government agencies and is expected to take several months.

settle

v. to reach an agreement of disagreement

synonym: inhabit, occupy, decide

(1) **settle** a dispute, (2) **settle** down in the town
I don't want to **settle** for second best.

concession

n. something that is granted or given up, often in a negotiation or argument; a place or stand where goods or services are sold or provided, often in a public setting such as a stadium or amusement park

synonym: agreement, compromise, deal

(1) an oil **concession**, (2) make a **concession**
The movie theater offered a special **concession** for seniors on Tuesdays.

Session 2: Spelling

- | | | |
|---------------------------------------|------|--|
| 1. de___e on a course of action | v. | to make up someone's mind about something; to come to a conclusion or judgment after considering options |
| 2. mat_____cs competition | n. | the science dealing with the logic of quantities, shapes, spaces, and arrangement |
| 3. re_____ze talent | v. | to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered |
| 4. bombs fell at ra___m | adj. | made, done, or happening without method, conscious decision, or any regular pattern |
| 5. d_e rabbit | n. | a mature female of mammals of which the male is called a buck, such as a deer or a rabbit |
| 6. walk ba_____rd | adv. | at, to, or toward the direction or place that is behind or rear |
| 7. emotional a__n | n. | a contest or competition, typically one in which participants exert themselves physically or mentally to achieve victory or surpass others |
| 8. ma___n the politician in the media | v. | to speak or write about someone or something in a harmful or critical way; (adjective) evil or harmful in nature or influence |
| 9. the most am_____g feeling | adj. | extremely surprising, especially in a way that you like or admire |

ANSWERS: 1. decide, 2. mathematics, 3. recognize, 4. random, 5. doe, 6. backward, 7. agon, 8. malign, 9. amazing

- | | |
|-------------------------------------|--|
| 10. the ul____te goal in life | <i>adj.</i> furthest or highest in degree or order |
| 11. a demonstration in lo__c | <i>n.</i> a way of thinking or reasoning conducted or evaluated by strict validity principles; the study of correct reasoning or good arguments |
| 12. an op_____ne remark | <i>adj.</i> suitable or happening at a time that is suitable or convenient for a particular purpose |
| 13. fire st__k | <i>v.</i> 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 |
| 14. ex_____t a valuable opportunity | <i>v.</i> to make full use of and gain an advantage from resources, opportunities, etc. |
| 15. me__y data | <i>adj.</i> disorganized and untidy |
| 16. the st_____re of a machine | <i>n.</i> the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts |
| 17. pr_____le of treatment | <i>n.</i> a fundamental law or truth that explains or controls how something happens or works |
| 18. or__n bleeding | <i>n.</i> a part of the body of an animal or plant that has a particular purpose and performs a specific job |
| 19. a sand p__e | <i>n.</i> a collection of objects positioned one on top of another; a large sum of something, such as money |

ANSWERS: 10. ultimate, 11. logic, 12. opportune, 13. stick, 14. exploit, 15. messy, 16. structure, 17. principle, 18. organ, 19. pile

20. se___e down in the town *v.* to reach an agreement of disagreement
21. st_____re and function of the brain *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
22. decision-making pr_____s *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
23. the ex_____ed food sources *adj.* extremely tired
24. the height of a p__e *n.* a collection of objects positioned one on top of another; a large sum of something, such as money
25. infrared sp_____um *n.* an ordered array of colors into which a light beam can be split
26. environmental tr_____ff *n.* a balance achieved between two desirable but incompatible features; an exchange that occurs as a compromise
27. am_____g advances *adj.* extremely surprising, especially in a way that you like or admire
28. I don't care a c__p *n.* a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat
29. an eco_____al meal *adj.* providing a satisfactory return on the money, time, or effort; not using more money, fuel, etc. than necessary

ANSWERS: 20. settle, 21. structure, 22. process, 23. exhausted, 24. pile, 25. spectrum, 26. trade-off, 27. amazing, 28. chip, 29. economical

30. theory of com_____on *n.* the act or process of calculating something, especially an answer or amount, by using a machine or calculator
31. develop software more eff_____ly *adv.* in a way that produces maximum output with minimum effort or expense
32. det_____tic approach *adj.* characterized by an assumption of cause and effect and the absence of chance or randomness, often used to describe scientific or engineering calculations
33. ce_____al cortex *adj.* relating to the brain or intellect; intellectual or studious rather than emotional or physical
34. pr_____le in business *n.* a fundamental law or truth that explains or controls how something happens or works
35. se___e a dispute *v.* to reach an agreement of disagreement
36. li_____me ban from the sport *n.* the duration of someone's life or something's existence;
37. im_____nt a corporate strategy *v.* to put a decision, plan, or system into effect
38. his meal pre_____ces *n.* a stronger liking or interest for something or someone than another thing or person
39. di___l performance *adj.* depressing or dreary; causing or showing unhappiness or despair
40. the RSA al_____hm *n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation

ANSWERS: 30. computation, 31. efficiently, 32. deterministic, 33. cerebral, 34. principle, 35. settle, 36. lifetime, 37. implement, 38. preference, 39. dismal, 40. algorithm

41. ty____l leader *adj.* having the usual characteristics or traits of a specific group of things
42. im____e the test score *v.* to make or become better
43. in____e a lot of paperwork *v.* to include or affect someone or something as a necessary part of something else
44. have ex____ve vocabulary *adj.* covering a large area; having a wide range
45. ex____e our options *v.* to travel to or penetrate an area or a country to learn about it; to thoroughly examine a subject or a possibility to learn more about it
46. make a con____on *n.* something that is granted or given up, often in a negotiation or argument; a place or stand where goods or services are sold or provided, often in a public setting such as a stadium or amusement park
47. dis____zed the party *v.* to disrupt or destroy the systematic order or function of something
48. di____l failure *adj.* depressing or dreary; causing or showing unhappiness or despair
49. det____tic system *adj.* characterized by an assumption of cause and effect and the absence of chance or randomness, often used to describe scientific or engineering calculations
50. a c__p of wood *n.* a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat

ANSWERS: 41. typical, 42. improve, 43. involve, 44. extensive, 45. explore, 46. concession, 47. disorganize, 48. dismal, 49. deterministic, 50. chip

51. the ul____te luxury *adj.* furthest or highest in degree or order
52. pro____tic model *adj.* characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks
53. buck and d_e *n.* a mature female of mammals of which the male is called a buck, such as a deer or a rabbit
54. ex____t a security hole *v.* to make full use of and gain an advantage from resources, opportunities, etc.
55. for____ss of liabilities *n.* the act of stopping feeling angry or resentful towards someone for a mistake or offense with compassion
56. dis____ze the whole country *v.* to disrupt or destroy the systematic order or function of something
57. me__y handling *adj.* disorganized and untidy
58. chemical pr____ty *n.* a thing or things that belong to someone
59. eff____ly combined *adv.* in a way that produces maximum output with minimum effort or expense
60. tr____ff problem *n.* a balance achieved between two desirable but incompatible features; an exchange that occurs as a compromise
61. low-r_v engine *n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute

ANSWERS: 51. ultimate, 52. probabilistic, 53. doe, 54. exploit, 55. forgiveness, 56. disorganize, 57. messy, 58. property, 59. efficiently, 60. trade-off, 61. rev

62. walk-in wa_____be *n.* a collection or set of clothing, especially for a particular occasion or purpose; a piece of furniture designed for storing clothes or personal belongings
63. ex_____e the world *v.* to travel to or penetrate an area or a country to learn about it; to thoroughly examine a subject or a possibility to learn more about it
64. share my in_____ts *n.* the ability to gain an accurate and deep understanding of people or situations; an accurate and deep understanding of what something is like
65. exh_____ve review *adj.* comprehensive and thorough; totally complete; leaving no stone unturned
66. a man of pr_____ty *n.* a thing or things that belong to someone
67. strict time con_____nts *n.* a limit or restriction on something, such as an action, behavior, or thought
68. cloud his rep_____on *n.* the general opinion that people have about someone or something, especially when this is based on their previous experiences or behaviors
69. re__x at home *v.* to become or cause someone to become less active or tense and calmer
70. ov___y excessive *adv.* to a greater degree than is appropriate or desirable
71. beg for for_____ss *n.* the act of stopping feeling angry or resentful towards someone for a mistake or offense with compassion

ANSWERS: 62. wardrobe, 63. explore, 64. insight, 65. exhaustive, 66. property, 67. constraint, 68. reputation, 69. relax, 70. overly, 71. forgiveness

72. al_____hm for image processing *n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation
73. two-ph__e structure *n.* any stage in a series of events, change, or development
74. de___e a question *v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options
75. de_____us breeze *adj.* exceptionally pleasing to taste or smell
76. a particular pre_____ce for Chinese art *n.* a stronger liking or interest for something or someone than another thing or person
77. a broad sp_____um of opinion *n.* an ordered array of colors into which a light beam can be split
78. op_____ne occasion *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
79. de_____on authority *n.* the act or process of making up someone's mind about something; a choice or judgment reached after considering options
80. li_____me benefits *n.* the duration of someone's life or something's existence;
81. policy dec_____ker *n.* a person who makes important decisions, especially at a high level in an organization
82. offer so___e *n.* comfort or consolation in a time of distress, sadness, or disappointment; (verb) to comfort or console someone in a time of distress, loss, or suffering

ANSWERS: 72. algorithm, 73. phase, 74. decide, 75. delicious, 76. preference, 77. spectrum, 78. opportune, 79. decision, 80. lifetime, 81. decision-maker, 82. solace

83. mot_____on for a change *n.* the reason or enthusiasm for acting or behaving in a particular way
84. 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
85. common in_____on *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
86. L__O accounting practices *n.* (an acronym for "last in, first out") a method of accounting or inventory management in which the most recent items acquired or produced are the first to be sold or used
87. gu_____ee a high quality *v.* to promise something will happen formally, especially that certain conditions about a product, service, or transaction would be met
88. minimalist wa_____be *n.* a collection or set of clothing, especially for a particular occasion or purpose; a piece of furniture designed for storing clothes or personal belongings
89. ca_____rd cutout *n.* a stiff, thick material made from compressed paper pulp used to make boxes and other packaging materials
90. im_____e a process *v.* to make or become better
91. du_____te my efforts *v.* to make or be an exact copy of something; to reproduce something

ANSWERS: 83. motivation, 84. stick, 85. invention, 86. LIFO, 87. guarantee, 88. wardrobe, 89. cardboard, 90. improve, 91. duplicate

92. develop a st____gy *n.* a detailed plan of action designed to achieve a long-term or overall goal.
93. a ra___m choice *adj.* made, done, or happening without method, conscious decision, or any regular pattern
94. regularly co____t with a doctor *v.* to seek or get advice or information from a person, book, or other source having special knowledge on a particular subject
95. pro_____on of disease *n.* the act or process of changing to the next stage or phase or moving forward
96. op_____l for intellectual growth *adj.* the best; most likely to be successful or advantageous
97. act as a dec_____ker *n.* a person who makes important decisions, especially at a high level in an organization
98. ba_____rd angle *adv.* at, to, or toward the direction or place that is behind or rear
99. rep_____on risk *n.* the general opinion that people have about someone or something, especially when this is based on their previous experiences or behaviors
100. a good grounding in mat_____cs *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
101. linear app_____te equation *adj.* nearly accurate or correct, but not completely so
102. re_____ze achievement *v.* to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered

ANSWERS: 92. strategy, 93. random, 94. consult, 95. progression, 96. optimal, 97. decision-maker, 98. backward, 99. reputation, 100. mathematics, 101. approximate, 102. recognize

103. a selfish de_____on
n. the act or process of making up someone's mind about something; a choice or judgment reached after considering options
104. ex_____ed parents
adj. extremely tired
105. so___e in music
n. comfort or consolation in a time of distress, sadness, or disappointment; (verb) to comfort or console someone in a time of distress, loss, or suffering
106. improved student ou_____es
n. the result or effect of an action, event, etc.
107. variety of de_____us foods
adj. exceptionally pleasing to taste or smell
108. the ma_____m speed
adj. the largest or greatest amount or value attainable or attained
109. an a__n of creativity
n. a contest or competition, typically one in which participants exert themselves physically or mentally to achieve victory or surpass others
110. ov___y unnecessary
adv. to a greater degree than is appropriate or desirable
111. ce_____al palsy
adj. relating to the brain or intellect; intellectual or studious rather than emotional or physical
112. ma___n influence
v. to speak or write about someone or something in a harmful or critical way; (adjective) evil or harmful in nature or influence
113. a desirable ou_____e
n. the result or effect of an action, event, etc.

ANSWERS: 103. decision, 104. exhausted, 105. solace, 106. outcome, 107. delicious, 108. maximum, 109. agon, 110. overly, 111. cerebral, 112. malign, 113. outcome

114. co_____t my wallet *v.* to seek or get advice or information from a person, book, or other source having special knowledge on a particular subject
115. gu_____ee women equality *v.* to promise something will happen formally, especially that certain conditions about a product, service, or transaction would be met
116. cr__l joke *adj.* feeling or showing pleasure in causing pain or suffering to others
117. app_____te time *adj.* nearly accurate or correct, but not completely so
118. con_____nt on business activity *n.* a limit or restriction on something, such as an action, behavior, or thought
119. damage to internal or__ns *n.* a part of the body of an animal or plant that has a particular purpose and performs a specific job
120. L__O basis *n.* (an acronym for "last in, first out") a method of accounting or inventory management in which the most recent items acquired or produced are the first to be sold or used
121. avoid ste_____pe *n.* a fixed and unvarying idea or image that people have about what someone or something is like, but which is often not true in reality and may cause hurt and offense
122. understand his mot_____on *n.* the reason or enthusiasm for acting or behaving in a particular way

ANSWERS: 114. consult, 115. guarantee, 116. cruel, 117. approximate, 118. constraint, 119. organ, 120. LIFO, 121. stereotype, 122. motivation

123. negative ste_____pes *n.* a fixed and unvarying idea or image that people have about what someone or something is like, but which is often not true in reality and may cause hurt and offense
124. ma_____m limit *adj.* the largest or greatest amount or value attainable or attained
125. in_____e a high degree of risk *v.* to include or affect someone or something as a necessary part of something else
126. re__x a series of muscles *v.* to become or cause someone to become less active or tense and calmer
127. a profound in_____t *n.* the ability to gain an accurate and deep understanding of people or situations; an accurate and deep understanding of what something is like
128. immune fu_____on *n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
129. pr_____s improvement *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

ANSWERS: 123. stereotype, 124. maximum, 125. involve, 126. relax, 127. insight, 128. function, 129. process

130. an oil con_____on *n.* something that is granted or given up, often in a negotiation or argument; a place or stand where goods or services are sold or provided, often in a public setting such as a stadium or amusement park
131. F__O stock rotation *n.* (an acronym for "first in, first out") a method of accounting or inventory management in which the first items acquired or produced are also the first items to be sold or used
132. a cr__l and unusual punishment *adj.* feeling or showing pleasure in causing pain or suffering to others
133. parallel com_____on *n.* the act or process of calculating something, especially an answer or amount, by using a machine or calculator
134. im_____nt security measures *v.* to put a decision, plan, or system into effect
135. pro_____tic approach *adj.* characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks
136. improve co_____ve function *adj.* of or relating to mental processes of understanding
137. ex_____ve experience *adj.* covering a large area; having a wide range
138. achieve op_____l health *adj.* the best; most likely to be successful or advantageous

ANSWERS: 130. concession, 131. FIFO, 132. cruel, 133. computation, 134. implement, 135. probabilistic, 136. cognitive, 137. extensive, 138. optimal

139. F__O algorithm *n.* (an acronym for "first in, first out") a method of accounting or inventory management in which the first items acquired or produced are also the first items to be sold or used
140. ca_____rd box *n.* a stiff, thick material made from compressed paper pulp used to make boxes and other packaging materials
141. exh_____ve study *adj.* comprehensive and thorough; totally complete; leaving no stone unturned
142. du_____te his action *v.* to make or be an exact copy of something; to reproduce something
143. an indisputable lo__c *n.* a way of thinking or reasoning conducted or evaluated by strict validity principles; the study of correct reasoning or good arguments
144. fu_____on properly *n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
145. research on co_____ve psychology *adj.* of or relating to mental processes of understanding
146. the in_____on of new techniques *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing

ANSWERS: 139. FIFO, 140. cardboard, 141. exhaustive, 142. duplicate, 143. logic, 144. function, 145. cognitive, 146. invention

147. military st____gy *n.* a detailed plan of action designed to achieve a long-term or overall goal.
148. fairly ty____l symptoms *adj.* having the usual characteristics or traits of a specific group of things
149. r_v up the crowd *n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
150. eco_____al use of her time *adj.* providing a satisfactory return on the money, time, or effort; not using more money, fuel, etc. than necessary
151. pro_____on of civilization *n.* the act or process of changing to the next stage or phase or moving forward
152. enter on the last ph__e *n.* any stage in a series of events, change, or development

ANSWERS: 147. strategy, 148. typical, 149. rev, 150. economical, 151. progression, 152. phase

Session 3: Fill in the Blanks

1. There's no _____ in his description.
n. a way of thinking or reasoning conducted or evaluated by strict validity principles; the study of correct reasoning or good arguments
2. The incident attracted _____ media coverage throughout the world.
adj. covering a large area; having a wide range
3. He stepped on the gas pedal, and the engine released a loud _____.
n. a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
4. She falls over _____ when she sees her mother-in-law.
adv. at, to, or toward the direction or place that is behind or rear
5. These infections have the potential to impact practically every _____ system.
n. a part of the body of an animal or plant that has a particular purpose and performs a specific job
6. The phone rang at the most _____ time.
adj. suitable or happening at a time that is suitable or convenient for a particular purpose
7. Wild animals need to go forward with the _____ action to survive.
adj. the best; most likely to be successful or advantageous
8. The company has made great strides in its _____ toward sustainability.
n. the act or process of changing to the next stage or phase or moving forward

ANSWERS: 1. logic, 2. extensive, 3. rev, 4. backward, 5. organ, 6. opportune, 7. optimal, 8. progression

9. The dictator was known for his _____ and oppressive regime.
adj. feeling or showing pleasure in causing pain or suffering to others
10. We can use this campaign as a bargaining _____ in the negotiations.
n. a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat
11. The golfer recorded an _____ distance.
adj. extremely surprising, especially in a way that you like or admire
12. She had lived through two world wars in her _____.
n. the duration of someone's life or something's existence;
13. The _____ temperature recorded this summer was higher than average.
adj. the largest or greatest amount or value attainable or attained
14. We want to _____ ties between our two countries.
v. to make or become better
15. I need to _____ this document before I send it.
v. to make or be an exact copy of something; to reproduce something
16. Management must take _____ responsibility for the accident.
adj. furthest or highest in degree or order
17. The budget _____ forced them to make difficult decisions.
n. a limit or restriction on something, such as an action, behavior, or thought
18. The _____ cost of the project was estimated to be around \$500,000.
adj. nearly accurate or correct, but not completely so

ANSWERS: 9. cruel, 10. chip, 11. amazing, 12. lifetime, 13. maximum, 14. improve, 15. duplicate, 16. ultimate, 17. constraint, 18. approximate

19. The government promised to _____ a new system to control the financial crisis.
- v.* to put a decision, plan, or system into effect
20. Changing _____ about LGBTQ requires considerable effort.
- n.* a fixed and unvarying idea or image that people have about what someone or something is like, but which is often not true in reality and may cause hurt and offense
21. Hunters use a whistle that makes the ____ sound to lure stags.
- n.* a mature female of mammals of which the male is called a buck, such as a deer or a rabbit
22. They awaited news of the _____ of the election.
- n.* the result or effect of an action, event, etc.
23. We gained various _____ by analyzing the vast amount of data owned by the company.
- n.* the ability to gain an accurate and deep understanding of people or situations; an accurate and deep understanding of what something is like
24. She has a good _____ for being one of the best chefs in the city.
- n.* the general opinion that people have about someone or something, especially when this is based on their previous experiences or behaviors
25. The team conducted an _____ search for the missing hiker, but unfortunately, she was never found.
- adj.* comprehensive and thorough; totally complete; leaving no stone unturned
26. The grieving widow found _____ in reading her late husband's letters.
- n.* comfort or consolation in a time of distress, sadness, or disappointment; (verb) to comfort or console someone in a time of distress, loss, or suffering

ANSWERS: 19. implement, 20. stereotypes, 21. doe, 22. outcome, 23. insights, 24. reputation, 25. exhaustive, 26. solace

27. The weather was so _____ that we decided to stay indoors all day.
adj. depressing or dreary; causing or showing unhappiness or despair
28. The _____ runner fell to the ground and gasped.
adj. extremely tired
29. The patient experienced a _____ hemorrhage and required surgery.
adj. relating to the brain or intellect; intellectual or studious rather than emotional or physical
30. The investigation _____ several government agencies and is expected to take several months.
v. to include or affect someone or something as a necessary part of something else
31. His betrayal _____ the company completely.
v. to disrupt or destroy the systematic order or function of something
32. In a _____ system, the outcome is uncertain and can vary based on chance.
adj. characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks
33. His _____ faculties were getting worse because of a lack of sleep.
adj. of or relating to mental processes of understanding
34. There was a _____ between speed and accuracy in the task.
n. a balance achieved between two desirable but incompatible features; an exchange that occurs as a compromise

ANSWERS: 27. dismal, 28. exhausted, 29. cerebral, 30. involves, 31. disorganized, 32. probabilistic, 33. cognitive, 34. trade-off

35. This device displayed the speech _____ spectrographically.
n. an ordered array of colors into which a light beam can be split
36. I don't want to _____ for second best.
v. to reach an agreement of disagreement
37. The _____ for applying for a visa can be lengthy and complicated.
n. a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
38. The warehouse uses a _____ system to keep track of inventory.
n. (an acronym for "first in, first out") a method of accounting or inventory management in which the first items acquired or produced are also the first items to be sold or used
39. The organizational _____ of start-ups is often flat and straightforward.
n. the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
40. I made a _____ box to store my winter clothes in.
n. a stiff, thick material made from compressed paper pulp used to make boxes and other packaging materials
41. The weightlifting competition brought together athletes from different countries for an international _____.
n. a contest or competition, typically one in which participants exert themselves physically or mentally to achieve victory or surpass others

ANSWERS: 35. spectrum, 36. settle, 37. process, 38. FIFO, 39. structure, 40. cardboard, 41. agon

42. The rules were _____ after the new executive arrived.

v. to become or cause someone to become less active or tense and calmer

43. To find drunk drivers, police conduct _____ tests.

adj. made, done, or happening without method, conscious decision, or any regular pattern

44. We can resolve support requests quickly and _____ by utilization of AI.

adv. in a way that produces maximum output with minimum effort or expense

45. We _____ our mining resources to strengthen our national power.

v. to make full use of and gain an advantage from resources, opportunities, etc.

46. 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

47. After the party, they had to clean up _____ of dirty dishes.

n. a collection of objects positioned one on top of another; a large sum of something, such as money

48. Efficiency isn't an essential _____ here; fairness is.

n. a fundamental law or truth that explains or controls how something happens or works

49. She was struggling to make a _____ between two job offers.

n. the act or process of making up someone's mind about something; a choice or judgment reached after considering options

ANSWERS: 42. relaxed, 43. random, 44. efficiently, 45. exploit, 46. stick, 47. piles, 48. principle, 49. decision

50. The article _____ the company's reputation with false accusations.
- v.* to speak or write about someone or something in a harmful or critical way; (adjective) evil or harmful in nature or influence
51. He gained debt _____.
- n.* the act of stopping feeling angry or resentful towards someone for a mistake or offense with compassion
52. He stood to inherit a million-dollar _____.
- n.* a thing or things that belong to someone
53. A significant amount of _____ is required to be a teacher.
- n.* the reason or enthusiasm for acting or behaving in a particular way
54. The management must _____ strategies to increase office security.
- v.* to travel to or penetrate an area or a country to learn about it; to thoroughly examine a subject or a possibility to learn more about it
55. Her _____ is comfortable clothing over fashionable ones.
- n.* a stronger liking or interest for something or someone than another thing or person
56. We cannot _____ enough raw material sources.
- v.* to promise something will happen formally, especially that certain conditions about a product, service, or transaction would be met
57. Our plan includes a comprehensive marketing _____.
- n.* a detailed plan of action designed to achieve a long-term or overall goal.

ANSWERS: 50. maligned, 51. forgiveness, 52. property, 53. motivation, 54. explore, 55. preference, 56. guarantee, 57. strategy

58. The movie was _____ dramatic, with exaggerated emotions and cliched plot twists.

adv. to a greater degree than is appropriate or desirable

59. This artwork is _____ of her work.

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

60. The _____ algorithm always produces the same result for a given input.

adj. characterized by an assumption of cause and effect and the absence of chance or randomness, often used to describe scientific or engineering calculations

61. The researcher demonstrated the superiority of quantum _____ in several mathematical tasks.

n. the act or process of calculating something, especially an answer or amount, by using a machine or calculator

62. The era of the industrial revolution was a crucial _____ of history.

n. any stage in a series of events, change, or development

63. A wealth of information does not always have a positive impact on _____.

n. a person who makes important decisions, especially at a high level in an organization

64. Her _____ selection included several pieces from high-end designer brands.

n. a collection or set of clothing, especially for a particular occasion or purpose; a piece of furniture designed for storing clothes or personal belongings

65. We could grill the meat in a _____ way.

adj. exceptionally pleasing to taste or smell

ANSWERS: 58. overly, 59. typical, 60. deterministic, 61. computation, 62. phase, 63. decision-makers, 64. wardrobe, 65. delicious

66. The brain is an incredibly complex organ that controls the body's _____.
- n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
67. It is more _____ to wash your plastic bottle and reuse it.
- adj.* providing a satisfactory return on the money, time, or effort; not using more money, fuel, etc. than necessary
68. She couldn't _____ whether to order the pizza or the pasta for dinner.
- v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options
69. He has a flair for _____.
- n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
70. The movie theater offered a special _____ for seniors on Tuesdays.
- n.* something that is granted or given up, often in a negotiation or argument; a place or stand where goods or services are sold or provided, often in a public setting such as a stadium or amusement park
71. It's important to _____ your strengths and weaknesses.
- v.* to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered
72. Necessity is the mother of _____.
- n.* the creation of a new device or process resulting from study and experimentation; the act of inventing

ANSWERS: 66. function, 67. economical, 68. decide, 69. mathematics, 70. concession, 71. recognize, 72. invention

73. The company uses a _____ inventory method to keep track of its stock.
- n.* (an acronym for "last in, first out") a method of accounting or inventory management in which the most recent items acquired or produced are the first to be sold or used
74. His _____ bedroom is always a source of frustration for his mother.
- adj.* disorganized and untidy
75. We can evaluate the performance of an _____ in terms of computation time.
- n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation
76. Always _____ a lawyer before launching a business.
- v.* to seek or get advice or information from a person, book, or other source having special knowledge on a particular subject

ANSWERS: 73. LIFO, 74. messy, 75. algorithm, 76. consult