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Vocabulary Builder Reference from...

James Earle: Da Vinci's Vitruvian Man of math | TED Talk

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

All Words

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Session 1: Word List

sketch

n. a simple, quickly-made picture that does not have many details; a short descriptive summary of something

synonym: drawing, outline, blueprint

(1) a penciled **sketch**, (2) first design **sketches**

Yesterday, I created a rough **sketch** of the plan.

recognizable

adj. easy to become aware of or identify

synonym: noticeable, perceptible, definite

(1) to a **recognizable** degree, (2) **recognizable** landmark

His car was easily **recognizable** in the parking lot.

symbol

n. something visible that is used to represent something else

synonym: mark, character, insignia

(1) **symbol** color, (2) **symbol** for happiness

The dragon is considered a **symbol** of bravery.

Renaissance

n. a new growth in activity or enthusiasm in anything, particularly art, literature, or music

synonym: rebirth, golden age

(1) artistic **renaissance**, (2) industrial **renaissance**

Folk music is now experiencing a **renaissance**.

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**.

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.

pi

n. a mathematical constant that is the ratio of a circle's circumference to its diameter, approximately equal to 3.14159

(1) the mathematical constant **pi**, (2) number **pi**

He can recite **pi** to 1000 digits.

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.

radial

adj. of or relating to rays or the radii of a circle; spreading out from a central point

synonym : concentric, central, spoke-like

(1) **radial** symmetry, (2) in a **radial** direction

The **radial** design of the wheel allows for maximum strength and stability.

propose

v. to make a proposal, declare a plan for something

synonym : suggest, offer, recommend

(1) **propose** the amendment, (2) **propose** changes

I want to **propose** a toast in honor of our longstanding

relationship.

ancient

adj. relating to the long ago, particularly the historical period preceding the fall of the Western Roman Empire; very old

synonym : archaic, age-old, obsolete

(1) pre-Christian **ancient**, (2) **ancient** stories

They have been living near water since **ancient** times.

influence

n. the ability to affect someone's or something's character, growth, or behavior, or the effect itself

synonym : power, leverage, effect

(1) **influence** a child's future, (2) **influence** the daily life

The former emperor had a particular **influence** even after he abdicated.

architect

n. a person whose job is to design plans to be used in making something, such as buildings

synonym : creator, designer, planner

(1) landscape **architect**, (2) **architect** of the peace accord

The building **architect** tried to build the house above the tree.

firm

adj. resolute or unwavering in decision-making or action; strong or secure in structure, make, or composition; reliable, trustworthy, or dependable; (noun) a business or company

synonym : stable, secure, steadfast

(1) **firm** grip, (2) accounting **firm**

The **firm** deadline for submitting the project is tomorrow, so we need to work efficiently to finish on time.

claim

v. to assert that something is true; to demand or request something as one's own; to lay legal or moral right to something; (noun) a demand or assertion of a right or something that one believes to be true

synonym : assert, declare, maintain

(1) **claim** responsibility, (2) false **claim**

He wants to **claim** ownership of the abandoned property.

navel

n. the small depression or scar on the abdomen where the umbilical cord was attached at birth; the center or core of something

synonym : belly button, umbilicus, center

(1) **navel** string, (2) gaze at my **navel**

I have a piercing in my **navel**, which I got in college.

compass

n. a navigational instrument for finding directions with a needle that can move easily and that always points to the north; the limit or range of capability

synonym : guideline, borderline, ambit

(1) read a **compass**, (2) sailing without a **compass**

The results were beyond our **compass** of imagination.

addition

n. the act or process of adding something to something else; the process of adding numbers

synonym : accumulation, expansion, addendum

(1) chemical **addition**, (2) **addition** of vectors

In **addition**, private corporations provide healthcare services.

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.

span

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

synonym : interval, period, length

(1) the **span** of a bird's wings, (2) the average life **span**

He slightly modified the **span** of training because it was just before a match.

correspondence

n. the letters, emails, etc., especially official or business ones; the quality or state of being the same in amount, number, status

synonym: letters, closeness, likeness

(1) a business **correspondence**, (2) one-to-one **correspondence**

The results of the two experiments were in **correspondence**.

metaphor

n. a figure of speech in which an expression is used to refer to something that it does not denote to suggest a similarity

synonym: conceit, analogy, symbol

(1) **metaphor** for death, (2) visual **metaphor**

She expressed her thought in an artful choice of **metaphors**.

humankind

n. the whole of the living human inhabitants of the earth

synonym: humanity, human race, society

(1) **humankind** as a species, (2) history of **humankind**

On the geological time scale, **humankind** has existed for a brief moment.

intellect

n. the ability to think logically and comprehend information, especially at an advanced level

synonym: mind, brightness, cleverness

(1) enrich my **intellect**, (2) human **intellect**

Your **intellect** is capable of distinguishing among similar objects.

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.

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.

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.

platonic

adj. (of relationship or emotion) friendly or affectionate but not sexual

synonym: nonphysical, nonsexual, spiritual

(1) **platonic** relationship, (2) **platonic** love

His relationship with her was completely **platonic**.

chain

n. a series of connected links or objects; a system or group of interconnected elements; a restraint or shackle

synonym: series, string, link

(1) **chain** reaction, (2) supply **chain**

The **chain** on my bike broke, leaving me stranded.

universe

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

synonym: cosmos, macrocosm

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

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

hierarchy

n. a system in which people or things are organized into different levels of importance from highest to lowest

synonym: ranking, order, scale

(1) top of the **hierarchy**, (2) **hierarchy** of folders
She has taken a step up in the organizational **hierarchy**.

resemble

v. to look like or be similar to someone or something
synonym: look like, be similar to

(1) **resemble** each other, (2) **resemble** her mother
The brothers **resemble** each other in the hobby.

angel

n. a spiritual being believed to be a messenger of God
often depicted as having wings and a halo
synonym: messenger, spirit, celestial being

(1) **angel** investors, (2) fallen **angel**
As she lay on her deathbed, a bright light appeared, and she
saw a holy **angel** standing at the foot of her bed.

planet

n. any of the nine large celestial bodies that circle in the
solar system; any celestial body that revolves around a
star
synonym: earth, world, globe

(1) **planet** like the Earth, (2) save the **planet**
Mercury is the closest **planet** to the sun.

life-form

n. a living organism, especially one that has a distinct
shape, structure, or behavior
synonym: organism, species, living organism

(1) **life-form** discovery, (2) a minute **life-form**
Scientists are searching for signs of **life-form** on other
planets.

demon

n. an evil spirit, supernatural being or entity often depicted
as malevolent or harmful
synonym: fiend, devil, evil spirit

(1) **demon** hunter, (2) cast **demon** eyes
The actor's portrayal of the **demon** in the horror movie was
terrifying.

devil

n. a supernatural being typically represented in belief systems as an evil or mischievous spirit, often used metaphorically to describe a person or thing that is harmful, dangerous, or wicked

synonym: demon, fiend, satan

(1) **devil's** advocate, (2) **devil** horns

There are various ways to ward off the **devil**, including prayer and holy water.

philosophy

n. the study of general and fundamental questions, such as those about existence, reason, knowledge, values, mind

synonym: doctrine, attitude, creed

(1) **philosophy** of education, (2) western **philosophy**

Ethics is a branch of **philosophy**.

mortal

adj. subject to death; unrelenting and deadly

synonym: deathly, perishable, non-eternal

(1) a **mortal** combat, (2) this **mortal** life

All humans are **mortal** and will eventually die.

accompany

v. to go somewhere or travel with someone or something

synonym: follow, escort, attend

(1) **accompany** a chicken dish, (2) **accompany** the book

Please let me know if you want to **accompany** me to my hometown.

immortal

adj. having eternal or never-ending life; living forever; incapable of dying; having enduring fame or lasting significance

synonym: eternal, everlasting, undying

(1) **immortal** soul, (2) **immortal** love

Legends often describe mythical creatures as **immortal** beings.

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?

pry v. to force open or to try to get information from someone by asking too many questions
synonym : probe, investigate, inquire
(1) **pry** a secret out of a person, (2) **pry** into the affairs
He used a crowbar to **pry** open the locked door.

desire n. a strong feeling of wanting to have or do something
synonym : ambition, appetite, greed
(1) unsatisfied **desire**, (2) fleshly **desire**
Low sexual **desire** typically correlates with low testosterone levels.

comprehend v. to understand the nature or meaning of something fully
synonym : understand, grasp, apprehend
(1) **comprehend** English, (2) **comprehend** instructions
She struggled to **comprehend** complex math problems.

complicated adj. involving a lot of different things or parts in a way that is difficult to understand or analyze
synonym : complex, convoluted, intricate
(1) a **complicated** process, (2) become increasingly **complicated**
He did **complicated** pen-and-ink drawings in just a few days.

crawl v. to move forward slowly, as people or animals with their bodies near the ground
synonym : creep, drag
(1) **crawl** across the floor, (2) **crawl** away from a car
Along the gravel roads, sizeable yellow school buses **crawl**.

irreconcilable adj. unable to be resolved or made compatible; not able to be in harmony or agreement due to fundamental differences or conflicts
synonym :

irresolvable, intractable, uncompromising

(1) **irreconcilable** differences, (2) **irreconcilable** conflict
The opposing sides in the debate held **irreconcilable** views.

geometry

n. the area of pure mathematics that deals with the points, lines, curves, and surfaces

(1) Euclidean **geometry**, (2) spherical **geometry**
The mathematician pioneered fractal **geometry**.

geometric

adj. relating to or having the characteristics of geometry (= the shape, properties, and relations of points, lines, surfaces, solids)

synonym: mathematical, symmetrical, regular

(1) a **geometric** proof, (2) **geometric** pattern
The **geometric** shapes and patterns in the artwork are visually stunning.

combine

v. to join or merge to form a single thing or group

synonym: coalesce, cohere, blend

(1) **combine** chemically with another substance,
(2) **combine** augmented reality

Hydrogen and oxygen **combine** to form water.

religion

n. a deep conviction in a supernatural power that controls human destiny

synonym: faith, creed, belief

(1) **religion** sociology, (2) freedom of **religion**

Their **religion** strictly prohibits them from drinking or gambling.

architecture

n. the art and science of designing and constructing buildings

synonym: design, structure, layout

(1) **architecture** design, (2) classic **architecture**

The city is known for its impressive **architecture** and beautiful old buildings.

artistic

adj. of or relating to art or artist; satisfying aesthetic standards and sensibilities

synonym : beautiful, aesthetic, creative

(1) an **artistic** photograph, (2) cultural and **artistic** activity

Promising entrepreneurs often have a high **artistic** sensibility.

icon

n. a picture or statue of a holy person considered to be a sacred thing; a little icon on the screen of a computer or smartphone that denotes an application or a file

synonym : figure, hero, idol

(1) **icon** for young people, (2) television **icon**

Some comic book characters are considered gay **icons**.

Session 2: Spelling

- | | |
|---|---|
| 1. cr__l away from a car | <i>v.</i> to move forward slowly, as people or animals with their bodies near the ground |
| 2. a business cor_____nce | <i>n.</i> the letters, emails, etc., especially official or business ones; the quality or state of being the same in amount, number, status |
| 3. p_y into the affairs | <i>v.</i> to force open or to try to get information from someone by asking too many questions |
| 4. co_____e chemically with another substance | <i>v.</i> to join or merge to form a single thing or group |
| 5. a com_____ed process | <i>adj.</i> involving a lot of different things or parts in a way that is difficult to understand or analyze |
| 6. fleshly de___e | <i>n.</i> a strong feeling of wanting to have or do something |
| 7. na__l string | <i>n.</i> the small depression or scar on the abdomen where the umbilical cord was attached at birth; the center or core of something |
| 8. save the pl___t | <i>n.</i> any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star |
| 9. spherical ge_____ry | <i>n.</i> the area of pure mathematics that deals with the points, lines, curves, and surfaces |

ANSWERS: 1. crawl, 2. correspondence, 3. pry, 4. combine, 5. complicated, 6. desire, 7. navel, 8. planet, 9. geometry

10. unsatisfied de___e *n.* a strong feeling of wanting to have or do something
11. an____t stories *adj.* relating to the long ago, particularly the historical period preceding the fall of the Western Roman Empire; very old
12. a minute li_____rm *n.* a living organism, especially one that has a distinct shape, structure, or behavior
13. cultural and ar____ic activity *adj.* of or relating to art or artist; satisfying aesthetic standards and sensibilities
14. industrial ren_____ce *n.* a new growth in activity or enthusiasm in anything, particularly art, literature, or music
15. history of hu_____nd *n.* the whole of the living human inhabitants of the earth
16. 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
17. gaze at my na__l *n.* the small depression or scar on the abdomen where the umbilical cord was attached at birth; the center or core of something
18. re_____le each other *v.* to look like or be similar to someone or something
19. co_____t car *n.* an idea or principle associated with something abstract
20. fallen an__l *n.* a spiritual being believed to be a messenger of God often depicted as having wings and a halo

ANSWERS: 10. desire, 11. ancient, 12. life-form, 13. artistic, 14. Renaissance, 15. humankind, 16. movement, 17. navel, 18. resemble, 19. concept, 20. angel

21. mat_____cs competition *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
22. ge_____ic pattern *adj.* relating to or having the characteristics of geometry (= the shape, properties, and relations of points, lines, surfaces, solids)
23. first design sk___hes *n.* a simple, quickly-made picture that does not have many details; a short descriptive summary of something
24. artistic ren_____ce *n.* a new growth in activity or enthusiasm in anything, particularly art, literature, or music
25. this mo___l life *adj.* subject to death; unrelenting and deadly
26. ac_____ny the book *v.* to go somewhere or travel with someone or something
27. cast de__n eyes *n.* an evil spirit, supernatural being or entity often depicted as malevolent or harmful
28. 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
29. one-to-one cor_____nce *n.* the letters, emails, etc., especially official or business ones; the quality or state of being the same in amount, number, status

ANSWERS: 21. mathematics, 22. geometric, 23. sketch, 24. Renaissance, 25. mortal, 26. accompany, 27. demon, 28. develop, 29. correspondence

30. 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
31. ar_____ct of the peace accord *n.* a person whose job is to design plans to be used in making something, such as buildings
32. television i__n *n.* a picture or statue of a holy person considered to be a sacred thing; a little icon on the screen of a computer or smartphone that denotes an application or a file
33. com_____nd English *v.* to understand the nature or meaning of something fully
34. li_____rm discovery *n.* a living organism, especially one that has a distinct shape, structure, or behavior
35. co_____e augmented reality *v.* to join or merge to form a single thing or group
36. a mo___l combat *adj.* subject to death; unrelenting and deadly
37. number pi *n.* a mathematical constant that is the ratio of a circle's circumference to its diameter, approximately equal to 3.14159
38. de__l horns *n.* a supernatural being typically represented in belief systems as an evil or mischievous spirit, often used metaphorically to describe a person or thing that is harmful, dangerous, or wicked

ANSWERS: 30. multiply, 31. architect, 32. icon, 33. comprehend, 34. life-form, 35. combine, 36. mortal, 37. pi, 38. devil

39. irr_____ble conflict *adj.* unable to be resolved or made compatible; not able to be in harmony or agreement due to fundamental differences or conflicts
40. classic arc_____ure *n.* the art and science of designing and constructing buildings
41. in_____ce a child's future *n.* the ability to affect someone's or something's character, growth, or behavior, or the effect itself
42. top of the hi_____hy *n.* a system in which people or things are organized into different levels of importance from highest to lowest
43. me_____or for death *n.* a figure of speech in which an expression is used to refer to something that it does not denote to suggest a similarity
44. visual me_____or *n.* a figure of speech in which an expression is used to refer to something that it does not denote to suggest a similarity
45. 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
46. pl_____ic relationship *adj.* (of relationship or emotion) friendly or affectionate but not sexual
47. hi_____hy of folders *n.* a system in which people or things are organized into different levels of importance from highest to lowest

ANSWERS: 39. irreconcilable, 40. architecture, 41. influence, 42. hierarchy, 43. metaphor, 44. metaphor, 45. recognize, 46. platonic, 47. hierarchy

48. supply ch__n *n.* a series of connected links or objects; a system or group of interconnected elements; a restraint or shackle
49. a penciled sk___h *n.* a simple, quickly-made picture that does not have many details; a short descriptive summary of something
50. sailing without a co____s *n.* a navigational instrument for finding directions with a needle that can move easily and that always points to the north; the limit or range of capability
51. ac____ny a chicken dish *v.* to go somewhere or travel with someone or something
52. the average life s__n *n.* the entire length of something, such as time or space from beginning to end; the amount of space that something covers
53. pl____ic love *adj.* (of relationship or emotion) friendly or affectionate but not sexual
54. the s__n of a bird's wings *n.* the entire length of something, such as time or space from beginning to end; the amount of space that something covers
55. f__m grip *adj.* resolute or unwavering in decision-making or action; strong or secure in structure, make, or composition; reliable, trustworthy, or dependable; (noun) a business or company
56. sy___l color *n.* something visible that is used to represent something else

ANSWERS: 48. chain, 49. sketch, 50. compass, 51. accompany, 52. span, 53. platonic, 54. span, 55. firm, 56. symbol

57. 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
58. 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
59. freedom of re____on *n.* a deep conviction in a supernatural power that controls human destiny
60. read a co____s *n.* a navigational instrument for finding directions with a needle that can move easily and that always points to the north; the limit or range of capability
61. an ar____ic photograph *adj.* of or relating to art or artist; satisfying aesthetic standards and sensibilities
62. the mathematical constant pi *n.* a mathematical constant that is the ratio of a circle's circumference to its diameter, approximately equal to 3.14159
63. cl__m responsibility *v.* to assert that something is true; to demand or request something as one's own; to lay legal or moral right to something; (noun) a demand or assertion of a right or something that one believes to be true
64. pr____e changes *v.* to make a proposal, declare a plan for something

ANSWERS: 57. develop, 58. movement, 59. religion, 60. compass, 61. artistic, 62. pi, 63. claim, 64. propose

65. ca_____te the distance *v.* to judge or find out the amount or number of something by using mathematics
66. di___e money equally *v.* to separate or cause to separate into parts or groups
67. enrich my in_____ct *n.* the ability to think logically and comprehend information, especially at an advanced level
68. di___e the cake into two pieces *v.* to separate or cause to separate into parts or groups
69. p_y a secret out of a person *v.* to force open or to try to get information from someone by asking too many questions
70. de__n hunter *n.* an evil spirit, supernatural being or entity often depicted as malevolent or harmful
71. accounting f__m *adj.* resolute or unwavering in decision-making or action; strong or secure in structure, make, or composition; reliable, trustworthy, or dependable; (noun) a business or company
72. Euclidean ge_____ry *n.* the area of pure mathematics that deals with the points, lines, curves, and surfaces
73. false cl__m *v.* to assert that something is true; to demand or request something as one's own; to lay legal or moral right to something; (noun) a demand or assertion of a right or something that one believes to be true

ANSWERS: 65. calculate, 66. divide, 67. intellect, 68. divide, 69. pry, 70. demon, 71. firm, 72. geometry, 73. claim

74. learn new co_____ts *n.* an idea or principle associated with something abstract
75. arc_____ure design *n.* the art and science of designing and constructing buildings
76. theory of the un_____se *n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
77. ca_____te his credit score *v.* to judge or find out the amount or number of something by using mathematics
78. cr__l across the floor *v.* to move forward slowly, as people or animals with their bodies near the ground
79. in a ra___l direction *adj.* of or relating to rays or the radii of a circle; spreading out from a central point
80. in_____ce the daily life *n.* the ability to affect someone's or something's character, growth, or behavior, or the effect itself
81. rec_____ble landmark *adj.* easy to become aware of or identify
82. human in_____ct *n.* the ability to think logically and comprehend information, especially at an advanced level
83. to a rec_____ble degree *adj.* easy to become aware of or identify
84. irr_____ble differences *adj.* unable to be resolved or made compatible; not able to be in harmony or agreement due to fundamental differences or conflicts

ANSWERS: 74. concept, 75. architecture, 76. universe, 77. calculate, 78. crawl, 79. radial, 80. influence, 81. recognizable, 82. intellect, 83. recognizable, 84. irreconcilable

85. chemical ad_____on *n.* the act or process of adding something to something else; the process of adding numbers
86. sy____l for happiness *n.* something visible that is used to represent something else
87. an__l investors *n.* a spiritual being believed to be a messenger of God often depicted as having wings and a halo
88. de__l's advocate *n.* a supernatural being typically represented in belief systems as an evil or mischievous spirit, often used metaphorically to describe a person or thing that is harmful, dangerous, or wicked
89. im_____al love *adj.* having eternal or never-ending life; living forever; incapable of dying; having enduring fame or lasting significance
90. landscape ar_____ct *n.* a person whose job is to design plans to be used in making something, such as buildings
91. hu_____nd as a species *n.* the whole of the living human inhabitants of the earth
92. re_____le her mother *v.* to look like or be similar to someone or something
93. pr_____e the amendment *v.* to make a proposal, declare a plan for something
94. a ge_____ic proof *adj.* relating to or having the characteristics of geometry (= the shape, properties, and relations of points, lines, surfaces, solids)

ANSWERS: 85. addition, 86. symbol, 87. angel, 88. devil, 89. immortal, 90. architect, 91. humankind, 92. resemble, 93. propose, 94. geometric

95. re_____on sociology *n.* a deep conviction in a supernatural power that controls human destiny
96. western phi_____hy *n.* the study of general and fundamental questions, such as those about existence, reason, knowledge, values, mind
97. i__n for young people *n.* a picture or statue of a holy person considered to be a sacred thing; a little icon on the screen of a computer or smartphone that denotes an application or a file
98. phi_____hy of education *n.* the study of general and fundamental questions, such as those about existence, reason, knowledge, values, mind
99. 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
100. ch__n reaction *n.* a series of connected links or objects; a system or group of interconnected elements; a restraint or shackle
101. com_____nd instructions *v.* to understand the nature or meaning of something fully
102. expansion of the un_____se *n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
103. a good grounding in mat_____cs *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement

ANSWERS: 95. religion, 96. philosophy, 97. icon, 98. philosophy, 99. multiply, 100. chain, 101. comprehend, 102. universe, 103. mathematics

104. im____al soul *adj.* having eternal or never-ending life; living forever; incapable of dying; having enduring fame or lasting significance
105. ra____l symmetry *adj.* of or relating to rays or the radii of a circle; spreading out from a central point
106. pre-Christian an____t *adj.* relating to the long ago, particularly the historical period preceding the fall of the Western Roman Empire; very old
107. pl____t like the Earth *n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
108. ad____on of vectors *n.* the act or process of adding something to something else; the process of adding numbers
109. 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
110. become increasingly com____ed *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze

ANSWERS: 104. immortal, 105. radial, 106. ancient, 107. planet, 108. addition, 109. recognize, 110. complicated

Session 3: Fill in the Blanks

1. One such rapidly growing _____ is quantum cryptography.
n. an idea or principle associated with something abstract
2. His relationship with her was completely _____.
adj. (of relationship or emotion) friendly or affectionate but not sexual
3. Promising entrepreneurs often have a high _____ sensibility.
adj. of or relating to art or artist; satisfying aesthetic standards and sensibilities
4. All humans are _____ and will eventually die.
adj. subject to death; unrelenting and deadly
5. I want to _____ a toast in honor of our longstanding relationship.
v. to make a proposal, declare a plan for something
6. 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
7. Their _____ strictly prohibits them from drinking or gambling.
n. a deep conviction in a supernatural power that controls human destiny
8. The _____ is about 13.8 billion years old.
n. everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy

ANSWERS: 1. concept, 2. platonic, 3. artistic, 4. mortal, 5. propose, 6. develop, 7. religion, 8. universe

9. Along the gravel roads, sizeable yellow school buses _____.
- v. to move forward slowly, as people or animals with their bodies near the ground
10. His car was easily _____ in the parking lot.
- adj. easy to become aware of or identify
11. The results of the two experiments were in _____.
- n. the letters, emails, etc., especially official or business ones; the quality or state of being the same in amount, number, status
12. He wants to _____ ownership of the abandoned property.
- v. to assert that something is true; to demand or request something as one's own; to lay legal or moral right to something; (noun) a demand or assertion of a right or something that one believes to be true
13. She struggled to _____ complex math problems.
- v. to understand the nature or meaning of something fully
14. In _____ private corporations provide healthcare services.
- n. the act or process of adding something to something else; the process of adding numbers
15. Low sexual _____ typically correlates with low testosterone levels.
- n. a strong feeling of wanting to have or do something
16. Your _____ is capable of distinguishing among similar objects.
- n. the ability to think logically and comprehend information, especially at an advanced level

ANSWERS: 9. crawl, 10. recognizable, 11. correspondence, 12. claim, 13. comprehend, 14. addition, 15. desire, 16. intellect

17. There are various ways to ward off the _____ including prayer and holy water.
- n.* a supernatural being typically represented in belief systems as an evil or mischievous spirit, often used metaphorically to describe a person or thing that is harmful, dangerous, or wicked
18. 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
19. The building _____ tried to build the house above the tree.
- n.* a person whose job is to design plans to be used in making something, such as buildings
20. The dragon is considered a _____ of bravery.
- n.* something visible that is used to represent something else
21. The _____ shapes and patterns in the artwork are visually stunning.
- adj.* relating to or having the characteristics of geometry (= the shape, properties, and relations of points, lines, surfaces, solids)
22. As she lay on her deathbed, a bright light appeared, and she saw a holy _____ standing at the foot of her bed.
- n.* a spiritual being believed to be a messenger of God often depicted as having wings and a halo
23. On the geological time scale, _____ has existed for a brief moment.
- n.* the whole of the living human inhabitants of the earth
24. She has taken a step up in the organizational _____.
- n.* a system in which people or things are organized into different levels of importance from highest to lowest

ANSWERS: 17. devil, 18. recognize, 19. architect, 20. symbol, 21. geometric, 22. angel, 23. humankind, 24. hierarchy

25. The former emperor had a particular _____ even after he abdicated.
n. the ability to affect someone's or something's character, growth, or behavior, or the effect itself
26. Legends often describe mythical creatures as _____ beings.
adj. having eternal or never-ending life; living forever; incapable of dying; having enduring fame or lasting significance
27. The mathematician pioneered fractal _____.
n. the area of pure mathematics that deals with the points, lines, curves, and surfaces
28. He couldn't _____ the actual value of the artwork.
v. to judge or find out the amount or number of something by using mathematics
29. Ethics is a branch of _____.
n. the study of general and fundamental questions, such as those about existence, reason, knowledge, values, mind
30. I have a piercing in my _____ which I got in college.
n. the small depression or scar on the abdomen where the umbilical cord was attached at birth; the center or core of something
31. He used a crowbar to ____ open the locked door.
v. to force open or to try to get information from someone by asking too many questions
32. He can recite ___ to 1000 digits.
n. a mathematical constant that is the ratio of a circle's circumference to its diameter, approximately equal to 3.14159

ANSWERS: 25. influence, 26. immortal, 27. geometry, 28. calculate, 29. philosophy, 30. navel, 31. pry, 32. pi

33. The _____ deadline for submitting the project is tomorrow, so we need to work efficiently to finish on time.

adj. resolute or unwavering in decision-making or action; strong or secure in structure, make, or composition; reliable, trustworthy, or dependable; (noun) a business or company

34. Mercury is the closest _____ to the sun.

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

35. They have been living near water since _____ times.

adj. relating to the long ago, particularly the historical period preceding the fall of the Western Roman Empire; very old

36. He has a flair for _____.

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

37. 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

38. The brothers _____ each other in the hobby.

v. to look like or be similar to someone or something

39. The results were beyond our _____ of imagination.

n. a navigational instrument for finding directions with a needle that can move easily and that always points to the north; the limit or range of capability

ANSWERS: 33. firm, 34. planet, 35. ancient, 36. mathematics, 37. movement, 38. resemble, 39. compass

40. Please let me know if you want to _____ me to my hometown.
v. to go somewhere or travel with someone or something
41. Some comic book characters are considered gay _____.
n. a picture or statue of a holy person considered to be a sacred thing; a little icon on the screen of a computer or smartphone that denotes an application or a file
42. The actor's portrayal of the _____ in the horror movie was terrifying.
n. an evil spirit, supernatural being or entity often depicted as malevolent or harmful
43. The _____ on my bike broke, leaving me stranded.
n. a series of connected links or objects; a system or group of interconnected elements; a restraint or shackle
44. She expressed her thought in an artful choice of _____.
n. a figure of speech in which an expression is used to refer to something that it does not denote to suggest a similarity
45. He did _____ pen-and-ink drawings in just a few days.
adj. involving a lot of different things or parts in a way that is difficult to understand or analyze
46. Yesterday, I created a rough _____ of the plan.
n. a simple, quickly-made picture that does not have many details; a short descriptive summary of something
47. Scientists are searching for signs of _____ on other planets.
n. a living organism, especially one that has a distinct shape, structure, or behavior

ANSWERS: 40. accompany, 41. icons, 42. demon, 43. chain, 44. metaphors, 45. complicated, 46. sketch, 47. life-form

48. _____ 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

49. The _____ design of the wheel allows for maximum strength and stability.

adj. of or relating to rays or the radii of a circle; spreading out from a central point

50. The city is known for its impressive _____ and beautiful old buildings.

n. the art and science of designing and constructing buildings

51. He slightly modified the _____ of training because it was just before a match.

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

52. The opposing sides in the debate held _____ views.

adj. unable to be resolved or made compatible; not able to be in harmony or agreement due to fundamental differences or conflicts

53. Hydrogen and oxygen _____ to form water.

v. to join or merge to form a single thing or group

54. Can you _____ 123321 by eleven?

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

55. Folk music is now experiencing a _____.

n. a new growth in activity or enthusiasm in anything, particularly art, literature, or music

ANSWERS: 48. Multiply, 49. radial, 50. architecture, 51. span, 52. irreconcilable, 53. combine, 54. divide, 55. renaissance