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Vocabulary Builder Reference from...

Jean-Baptiste Michel: The mathematics of history |

TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

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**.

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.

physics

n. the science of matter and energy and their interactions

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

He studied the **physics** of radiation.

biology

n. the scientific study of life and the natural processes of living things

(1) evolutionary **biology**, (2) cell and molecular **biology**

In junior high school, we had to dissect a frog in **biology**

class.

economics

n. the branch of social science that deals with the production, consumption, and transfer of goods and services

synonym: social science, finance, business

(1) welfare **economics**, (2) **economics** professor

His class will cover an introduction to agricultural **economics**.

quantity

n. the amount or number of something; magnitude

synonym: abundance, portion, amount

(1) half **quantity**, (2) residual **quantity**

In southward, the average annual water **quantity** increases.

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.

collaborate

v. to work with someone else to produce or achieve something

synonym: cooperate, unite, get together

(1) **collaborate** with the police, (2) **collaborate** on a press release

She agreed to **collaborate** with him in creating new artwork.

separate

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

synonym: disunite, isolate, ramify

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

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

historic

adj. famous or significant in history, or potentially so

synonym: memorable, momentous, historical

(1) **historic** accomplishment, (2) achieve the **historic** feat
The Chinese people have accomplished several **historic** feats.

vocabulary

n. the words used by a language, group, or individual; the knowledge and understanding of words and their meanings that a person possesses

synonym: lexicon, glossary, dictionary

(1) **vocabulary** list, (2) academic **vocabulary**

Using proper **vocabulary** is essential for writing a good essay.

grammar

n. the set of structural constraints on speakers' or writers' composition of clauses, phrases, and words

synonym: syntax, elements

(1) **grammar** checker, (2) Latin **grammar**

Mastering **grammar** takes a lot of time for those learning a foreign language.

hop

v. to jump lightly and quickly on one foot or both feet; to move rapidly from one place to another; to travel using an aircraft, bus, etc.

synonym: jump, bounce, skip

(1) **hop** on one foot, (2) **hop** from one place to another

The rabbit **hopped** over the fence.

tense

adj. unable to relax because of being nervous or worried; stretched tight or rigid

synonym: tight, stretched, strained

(1) **tense** atmosphere, (2) have a **tense** face

This story makes me **tense**.

conjugation

n. the variation of the form of a verb about the subject, tense, mood, or aspect, typically used to indicate the person and number of the subject or the time of the action; (of biology) a process wherein two organisms exchange genetic material, particularly in the context of

bacteria and some algae and fungi

synonym : junction, inflection, blending

(1) irregular **conjugation**, (2) **conjugation** pattern

Learning verb **conjugation** can be challenging, but speaking a foreign language fluently is necessary.

verb

n. a word or phrase that describes an action, state, or experience

(1) complex **verb**, (2) an auxiliary **verb**

Use a singular **verb** if the subject is singular.

irregular

adj. not having an even or balanced shape or arrangement; contrary to the usual rule, accepted order, or what is expected

synonym : periodic, rare, inconsistent

(1) **irregular** verbs, (2) **irregular** periods

Driving was difficult on the **irregular** cobblestoned surface.

capture

v. to catch a person or an animal and confine them in an area which they cannot escape

synonym : catch, arrest, imprison

(1) **capture** a glimpse, (2) **capture** customers' hearts

I was able to **capture** the moment on film.

complexity

n. the state or quality of being complicated or intricate and difficult to understand

synonym : intricacy, sophistication, elaboration

(1) cognitive **complexity**, (2) **complexity** theory

The project's **complexity** made it difficult for the team to complete it on time.

frequent

adj. happening constantly

synonym : periodic, recurring, routine

(1) **frequent** absence, (2) **frequent** use

His heartaches are less **frequent** now.

wrap

v. to cover or enclose something entirely with paper, cloth, or other material

synonym: surround, cover, bandage

(1) **wrap** a fish in foil, (2) **wrap** up a meeting

Wrap the bandage tightly around the injured arm.

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.

magnitude

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

synonym: size, extent, level

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

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

mechanism

n. a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction

synonym: means, method, system

(1) the **mechanism** for DNA replication, (2) defense **mechanism**

He discovered unique **mechanisms** for photochemical reactions.

origin

n. the first existence or beginning of something

synonym: root, source, ancestor

(1) **origin** of information, (2) racial **origin**

There are various hypotheses concerning the **origin** of life.

analyze

v. to think about in-depth and evaluate to discover essential features or meaning

synonym: explore, examine, investigate

(1) **analyze** a chemical compound, (2) **analyze** your real motives

The teacher attempted to **analyze** the root cause of our mistake.

phenomenon

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

synonym: marvel, wonder, splendor

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

A rainbow is a natural **phenomenon**.

brain

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

synonym: intellect, mind, encephalon

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

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

feat

n. a notable or impressive achievement, especially one that requires great skill or bravery

synonym: achievement, accomplishment, exploit

(1) intellectual **feat**, (2) **feat** accomplishment

It is an incredible **feat** to climb Mount Everest, the highest mountain in the world.

perceive

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

synonym: sense, discern, feel

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

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

relative

adj. considered and evaluated through comparison with something else

synonym: comparative, proximate, congeneric

(1) a remote **relative**, (2) **relative** factors

Most countries prohibit sexual activity between certain close

relatives.

intensify

v. to increase or make something increase in extent or strength

synonym: amplify, boost, strengthen

(1) **intensify** diplomatic efforts, (2) **intensify** a good relationship

Rebels have pledged to **intensify** the armed struggle against the dictatorship.

instance

n. a particular example or single occurrence of something

synonym: example, sample, illustration

(1) for **instance**, (2) notable **instance**

These articles cite five **instances** of climate change.

commit

v. to do something illegal or wrong

synonym: engage, carry out, execute

(1) **commit** suicide, (2) **commit** mistakes

The military has **committed** an abuse of human rights.

enormous

adj. extremely large or great

synonym: huge, giant, gigantic

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

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

committed

adj. willing to put in a lot of effort, time, and energy into something; firmly believing in something

synonym: devoted, faithful, attached

(1) in a **committed** relationship, (2) strong and **committed** sales staff

Our company is strongly **committed** to meeting customers' needs.

drag

v. to pull or haul with force

synonym: haul, pull, draw

(1) **drag** a chair over, (2) **drag** a team down

He **dragged** the heavy suitcase behind him as he walked.

casualty

n. a person who has been killed or injured in a war, accident, or other disasters; a victim

synonym: victim, injured, fatality

(1) civilian **casualty**, (2) military **casualty**

Unfortunately, the driver was the only **casualty** in the car accident.

linear

adj. of, relating to, or consisting of lines or length; able to be expressed as a straight line, especially on a graph

synonym: straight, direct, right

(1) **linear** trend, (2) a **linear** equation

People tend to make **linear** predictions.

exponential

adj. becoming more and more rapid; of or involving mathematical exponents

(1) **exponential** growth, (2) **exponential** function

Since the 1990s, the Internet has continued to experience **exponential** growth.

individual

n. a single person or thing, as distinct from a group

synonym: person, being, self

(1) a private **individual**, (2) **individual** freedom

As an **individual**, he had the right to make his own decisions and live his life as he saw fit.

unfold

v. to open up or spread out something that is folded or rolled up; to reveal or disclose something that was previously hidden or unknown

synonym: open, spread out, expose

(1) **unfold** the story, (2) **unfold** the stroller

The mystery **unfolded** as the detectives gathered more clues.

continent

n. one of the earth's large landmasses; (adjective) abstaining from your feelings, especially your desire to

have sex

synonym: landmass, (adjective) chaste, (adjective) pure

(1) the inland of a **continent**, (2) **continent** urinary diversion
Flight across the **continent** was a daring adventure in its day.

commonplace

adj. occurring very often; lacking originality or interest

synonym: ordinary, routine, mundane

(1) become a **commonplace** sight, (2) **commonplace** event

Forgetting someone's name is a **commonplace** occurrence.

digit

n. one of the elements that collectively form a system of numeration; a finger, thumb, or toe

synonym: number, integer, numeral

(1) **digit** identifier, (2) the **digit** in the hundreds place

We must enter a six- **digit** number to unlock the safe.

pace

n. the speed at which someone or something moves, or the rate at which something happens or changes

synonym: gait, rate, speed

(1) at your own **pace**, (2) the runner's **pace**

The economy is growing at a supercharged **pace**.

dawn

n. the time of day when the sun's light starts to show in the sky

synonym: daybreak, sunrise, advent

(1) the wan light of **dawn**, (2) crack of **dawn**

Missile assaults on the capital continued around **dawn**.

digital

adj. processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet

synonym: numerical, computerized, cyber

(1) a **digital** watch, (2) **digital** electronic signature

Sensors convert physical phenomena into **digital** signals.

convenient

adj. useful, helpful, or quick to do

synonym : timely, fortunate, suitable

(1) **convenient** way, (2) **convenient** location

The airport offers five **convenient** access routes.

trend

n. a general direction in which something is changing or developing

synonym : direction, movement, tendency

(1) an international **trend**, (2) the **trend** away from television

The oil price continued their downward **trend**.

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**.

predict

v. to state beforehand that something will happen in the future, mainly based on knowledge or experience

synonym : forecast, anticipate, foresee

(1) **predict** the future, (2) **predict** when she will arrive

It's notoriously challenging to **predict** birth rates.

Session 2: Spelling

- | | |
|----------------------------------|---|
| 1. a remote re_____ve | <i>adj.</i> considered and evaluated through comparison with something else |
| 2. col_____te with the police | <i>v.</i> to work with someone else to produce or achieve something |
| 3. h_p from one place to another | <i>v.</i> to jump lightly and quickly on one foot or both feet; to move rapidly from one place to another; to travel using an aircraft, bus, etc. |
| 4. a star of the first ma_____de | <i>n.</i> the extent, level, importance, or amount of something |
| 5. for in_____ce | <i>n.</i> a particular example or single occurrence of something |
| 6. pe_____ve a threat | <i>v.</i> to become aware or conscious of something through the senses |
| 7. un____d the story | <i>v.</i> to open up or spread out something that is folded or rolled up; to reveal or disclose something that was previously hidden or unknown |
| 8. ir_____ar verbs | <i>adj.</i> not having an even or balanced shape or arrangement; contrary to the usual rule, accepted order, or what is expected |
| 9. pr_____t when she will arrive | <i>v.</i> to state beforehand that something will happen in the future, mainly based on knowledge or experience |
| 10. mat_____cs competition | <i>n.</i> the science dealing with the logic of quantities, shapes, spaces, and arrangement |

ANSWERS: 1. relative, 2. collaborate, 3. hop, 4. magnitude, 5. instance, 6. perceive, 7. unfold, 8. irregular, 9. predict, 10. mathematics

- | | | |
|-------------------------------------|-------------|--|
| 11. an____e a chemical compound | <i>v.</i> | to think about in-depth and evaluate to discover essential features or meaning |
| 12. co_____nt urinary diversion | <i>n.</i> | one of the earth's large landmasses; (adjective) abstaining from your feelings, especially your desire to have sex |
| 13. in a co_____ed relationship | <i>adj.</i> | willing to put in a lot of effort, time, and energy into something; firmly believing in something |
| 14. crack of d__n | <i>n.</i> | the time of day when the sun's light starts to show in the sky |
| 15. the di__t in the hundreds place | <i>n.</i> | one of the elements that collectively form a system of numeration; a finger, thumb, or toe |
| 16. Latin gr_____r | <i>n.</i> | the set of structural constraints on speakers' or writers' composition of clauses, phrases, and words |
| 17. di__t identifier | <i>n.</i> | one of the elements that collectively form a system of numeration; a finger, thumb, or toe |
| 18. the ma_____de of the disaster | <i>n.</i> | the extent, level, importance, or amount of something |
| 19. an international tr__d | <i>n.</i> | a general direction in which something is changing or developing |
| 20. co___t suicide | <i>v.</i> | to do something illegal or wrong |
| 21. col_____te on a press release | <i>v.</i> | to work with someone else to produce or achieve something |
| 22. a private ind_____al | <i>n.</i> | a single person or thing, as distinct from a group |

ANSWERS: 11. analyze, 12. continent, 13. committed, 14. dawn, 15. digit, 16. grammar, 17. digit, 18. magnitude, 19. trend, 20. commit, 21. collaborate, 22. individual

23. se____te cream from milk *v.* to force, take, or pull apart; mark as different
24. academic voc____ry *n.* the words used by a language, group, or individual; the knowledge and understanding of words and their meanings that a person possesses
25. notable in____ce *n.* a particular example or single occurrence of something
26. civilian ca____ty *n.* a person who has been killed or injured in a war, accident, or other disasters; a victim
27. history of hu____nd *n.* the whole of the living human inhabitants of the earth
28. an____e your real motives *v.* to think about in-depth and evaluate to discover essential features or meaning
29. evolutionary bi____y *n.* the scientific study of life and the natural processes of living things
30. d__g a team down *v.* to pull or haul with force
31. a good grounding in mat____cs *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
32. pe____ve light *v.* to become aware or conscious of something through the senses
33. 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
34. historical phe____on *n.* something that exists and can be perceptible, especially one that is not fully understood

ANSWERS: 23. separate, 24. vocabulary, 25. instance, 26. casualty, 27. humankind, 28. analyze, 29. biology, 30. drag, 31. mathematics, 32. perceive, 33. insight, 34. phenomenon

35. a di____l watch *adj.* processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet
36. pr____e changes *v.* to make a proposal, declare a plan for something
37. half qu____ty *n.* the amount or number of something; magnitude
38. en____us amount *adj.* extremely large or great
39. ind____al freedom *n.* a single person or thing, as distinct from a group
40. have a te__e face *adj.* unable to relax because of being nervous or worried; stretched tight or rigid
41. h_p on one foot *v.* to jump lightly and quickly on one foot or both feet; to move rapidly from one place to another; to travel using an aircraft, bus, etc.
42. pr____t the future *v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience
43. se____te video into chapter *v.* to force, take, or pull apart; mark as different
44. di____l electronic signature *adj.* processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet

ANSWERS: 35. digital, 36. propose, 37. quantity, 38. enormous, 39. individual, 40. tense, 41. hop, 42. predict, 43. separate, 44. digital

45. cognitive com_____ty *n.* the state or quality of being complicated or intricate and difficult to understand
46. the runner's p__e *n.* the speed at which someone or something moves, or the rate at which something happens or changes
47. intellectual f__t *n.* a notable or impressive achievement, especially one that requires great skill or bravery
48. te__e atmosphere *adj.* unable to relax because of being nervous or worried; stretched tight or rigid
49. 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
50. the tr__d away from television *n.* a general direction in which something is changing or developing
51. natural phe_____on *n.* something that exists and can be perceptible, especially one that is not fully understood
52. ca_____e a glimpse *v.* to catch a person or an animal and confine them in an area which they cannot escape
53. d__g a chair over *v.* to pull or haul with force
54. exp_____al function *adj.* becoming more and more rapid; of or involving mathematical exponents
55. in_____fy diplomatic efforts *v.* to increase or make something increase in extent or strength

ANSWERS: 45. complexity, 46. pace, 47. feat, 48. tense, 49. rev, 50. trend, 51. phenomenon, 52. capture, 53. drag, 54. exponential, 55. intensify

56. ec_____cs professor *n.* the branch of social science that deals with the production, consumption, and transfer of goods and services
57. permanent br__n damage *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
58. the inland of a co_____nt *n.* one of the earth's large landmasses; (adjective) abstaining from your feelings, especially your desire to have sex
59. irregular con_____on *n.* the variation of the form of a verb about the subject, tense, mood, or aspect, typically used to indicate the person and number of the subject or the time of the action; (of biology) a process wherein two organisms exchange genetic material, particularly in the context of bacteria and some algae and fungi
60. an auxiliary v__b *n.* a word or phrase that describes an action, state, or experience
61. or___n of information *n.* the first existence or beginning of something
62. welfare ec_____cs *n.* the branch of social science that deals with the production, consumption, and transfer of goods and services
63. re_____ve factors *adj.* considered and evaluated through comparison with something else
64. w__p up a meeting *v.* to cover or enclose something entirely with paper, cloth, or other material

ANSWERS: 56. economics, 57. brain, 58. continent, 59. conjugation, 60. verb, 61. origin, 62. economics, 63. relative, 64. wrap

65. strong and co_____ed sales staff *adj.* willing to put in a lot of effort, time, and energy into something; firmly believing in something
66. ir_____ar periods *adj.* not having an even or balanced shape or arrangement; contrary to the usual rule, accepted order, or what is expected
67. exp_____al growth *adj.* becoming more and more rapid; of or involving mathematical exponents
68. con_____on pattern *n.* the variation of the form of a verb about the subject, tense, mood, or aspect, typically used to indicate the person and number of the subject or the time of the action; (of biology) a process wherein two organisms exchange genetic material, particularly in the context of bacteria and some algae and fungi
69. achieve the hi_____ic feat *adj.* famous or significant in history, or potentially so
70. f__t accomplishment *n.* a notable or impressive achievement, especially one that requires great skill or bravery
71. military ca_____ty *n.* a person who has been killed or injured in a war, accident, or other disasters; a victim
72. become a com_____ce sight *adj.* occurring very often; lacking originality or interest
73. racial or____n *n.* the first existence or beginning of something

ANSWERS: 65. committed, 66. irregular, 67. exponential, 68. conjugation, 69. historic, 70. feat, 71. casualty, 72. commonplace, 73. origin

74. a li___r equation *adj.* of, relating to, or consisting of lines or length; able to be expressed as a straight line, especially on a graph
75. hu_____nd as a species *n.* the whole of the living human inhabitants of the earth
76. fr_____nt absence *adj.* happening constantly
77. en_____us potential *adj.* extremely large or great
78. 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
79. w__p a fish in foil *v.* to cover or enclose something entirely with paper, cloth, or other material
80. con_____nt location *adj.* useful, helpful, or quick to do
81. at your own p__e *n.* the speed at which someone or something moves, or the rate at which something happens or changes
82. nuclear ph_____s *n.* the science of matter and energy and their interactions
83. gr_____r checker *n.* the set of structural constraints on speakers' or writers' composition of clauses, phrases, and words
84. pr_____e the amendment *v.* to make a proposal, declare a plan for something
85. defense me_____sm *n.* a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction

ANSWERS: 74. linear, 75. humankind, 76. frequent, 77. enormous, 78. rev, 79. wrap, 80. convenient, 81. pace, 82. physics, 83. grammar, 84. propose, 85. mechanism

86. un___d the stroller *v.* to open up or spread out something that is folded or rolled up; to reveal or disclose something that was previously hidden or unknown
87. com_____ty theory *n.* the state or quality of being complicated or intricate and difficult to understand
88. li___r trend *adj.* of, relating to, or consisting of lines or length; able to be expressed as a straight line, especially on a graph
89. residual qu_____ty *n.* the amount or number of something; magnitude
90. in_____fy a good relationship *v.* to increase or make something increase in extent or strength
91. hi_____ic accomplishment *adj.* famous or significant in history, or potentially so
92. basic br__n function *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
93. co___t mistakes *v.* to do something illegal or wrong
94. laws of ph_____s *n.* the science of matter and energy and their interactions
95. cell and molecular bi_____y *n.* the scientific study of life and the natural processes of living things
96. 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
97. ca_____e customers' hearts *v.* to catch a person or an animal and confine them in an area which they cannot escape

ANSWERS: 86. unfold, 87. complexity, 88. linear, 89. quantity, 90. intensify, 91. historic, 92. brain, 93. commit, 94. physics, 95. biology, 96. insight, 97. capture

98. the me_____sm for DNA replication *n.* a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction
99. complex v__b *n.* a word or phrase that describes an action, state, or experience
100. com_____ce event *adj.* occurring very often; lacking originality or interest
101. voc_____ry list *n.* the words used by a language, group, or individual; the knowledge and understanding of words and their meanings that a person possesses
102. the wan light of d__n *n.* the time of day when the sun's light starts to show in the sky
103. con_____nt way *adj.* useful, helpful, or quick to do
104. fr_____nt use *adj.* happening constantly

ANSWERS: 98. mechanism, 99. verb, 100. commonplace, 101. vocabulary, 102. dawn, 103. convenient, 104. frequent

Session 3: Fill in the Blanks

1. There are various hypotheses concerning the _____ of life.
n. the first existence or beginning of something
2. The economy is growing at a supercharged _____.
n. the speed at which someone or something moves, or the rate at which something happens or changes
3. People tend to make _____ predictions.
adj. of, relating to, or consisting of lines or length; able to be expressed as a straight line, especially on a graph
4. This story makes me _____.
adj. unable to relax because of being nervous or worried; stretched tight or rigid
5. The _____ of the earthquake was measured at 7.8 on the Richter scale.
n. the extent, level, importance, or amount of something
6. A rainbow is a natural _____.
n. something that exists and can be perceptible, especially one that is not fully understood
7. In southward, the average annual water _____ increases.
n. the amount or number of something; magnitude
8. She agreed to _____ with him in creating new artwork.
v. to work with someone else to produce or achieve something

ANSWERS: 1. origin, 2. pace, 3. linear, 4. tense, 5. magnitude, 6. phenomenon, 7. quantity, 8. collaborate

9. Since the 1990s, the Internet has continued to experience _____ growth.
adj. becoming more and more rapid; of or involving mathematical exponents
10. Unfortunately, the driver was the only _____ in the car accident.
n. a person who has been killed or injured in a war, accident, or other disasters; a victim
11. Missile assaults on the capital continued around _____.
n. the time of day when the sun's light starts to show in the sky
12. These articles cite five _____ of climate change.
n. a particular example or single occurrence of something
13. X-rays revealed a small tumor in his _____.
n. the organ inside the head that is responsible for one's movement, thought, memory, and feeling
14. 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
15. The rabbit _____ over the fence.
v. to jump lightly and quickly on one foot or both feet; to move rapidly from one place to another; to travel using an aircraft, bus, etc.
16. As an _____ he had the right to make his own decisions and live his life as he saw fit.
n. a single person or thing, as distinct from a group

ANSWERS: 9. exponential, 10. casualty, 11. dawn, 12. instances, 13. brain, 14. rev, 15. hopped, 16. individual,

17. Forgetting someone's name is a _____ occurrence.

adj. occurring very often; lacking originality or interest

18. The teacher attempted to _____ the root cause of our mistake.

v. to think about in-depth and evaluate to discover essential features or meaning

19. The airport offers five _____ access routes.

adj. useful, helpful, or quick to do

20. Mastering _____ takes a lot of time for those learning a foreign language.

n. the set of structural constraints on speakers' or writers' composition of clauses, phrases, and words

21. Sensors convert physical phenomena into _____ signals.

adj. processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet

22. Shakespeare's output of poetry was _____.

adj. extremely large or great

23. I want to _____ a toast in honor of our longstanding relationship.

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

24. We must enter a six-_____ number to unlock the safe.

n. one of the elements that collectively form a system of numeration; a finger, thumb, or toe

25. Our company is strongly _____ to meeting customers' needs.

adj. willing to put in a lot of effort, time, and energy into something; firmly believing in something

ANSWERS: 17. commonplace, 18. analyze, 19. convenient, 20. grammar, 21. digital, 22. enormous, 23. propose, 24. digit, 25. committed

26. He discovered unique _____ for photochemical reactions.
- n.* a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction
27. He has a flair for _____.
- n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
28. 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
29. Flight across the _____ was a daring adventure in its day.
- n.* one of the earth's large landmasses; (adjective) abstaining from your feelings, especially your desire to have sex
30. The Chinese people have accomplished several _____ feats.
- adj.* famous or significant in history, or potentially so
31. On the geological time scale, _____ has existed for a brief moment.
- n.* the whole of the living human inhabitants of the earth
32. He _____ the heavy suitcase behind him as he walked.
- v.* to pull or haul with force
33. His class will cover an introduction to agricultural _____.
- n.* the branch of social science that deals with the production, consumption, and transfer of goods and services

ANSWERS: 26. mechanisms, 27. mathematics, 28. insights, 29. continent, 30. historic, 31. humankind, 32. dragged, 33. economics

34. It is an incredible _____ to climb Mount Everest, the highest mountain in the world.
- n.* a notable or impressive achievement, especially one that requires great skill or bravery
35. Most countries prohibit sexual activity between certain close _____.
- adj.* considered and evaluated through comparison with something else
36. Use a singular _____ if the subject is singular.
- n.* a word or phrase that describes an action, state, or experience
37. The mystery _____ as the detectives gathered more clues.
- v.* to open up or spread out something that is folded or rolled up; to reveal or disclose something that was previously hidden or unknown
38. We need to _____ the aspect of his personality from the part of his competence when making an investment decision.
- v.* to force, take, or pull apart; mark as different
39. In junior high school, we had to dissect a frog in _____ class.
- n.* the scientific study of life and the natural processes of living things
40. It's notoriously challenging to _____ birth rates.
- v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience
41. The oil price continued their downward _____.
- n.* a general direction in which something is changing or developing

ANSWERS: 34. feat, 35. relatives, 36. verb, 37. unfolded, 38. separate, 39. biology, 40. predict, 41. trend

42. He studied the _____ of radiation.

n. the science of matter and energy and their interactions

43. Using proper _____ is essential for writing a good essay.

n. the words used by a language, group, or individual; the knowledge and understanding of words and their meanings that a person possesses

44. _____ the bandage tightly around the injured arm.

v. to cover or enclose something entirely with paper, cloth, or other material

45. Learning verb _____ can be challenging, but speaking a foreign language fluently is necessary.

n. the variation of the form of a verb about the subject, tense, mood, or aspect, typically used to indicate the person and number of the subject or the time of the action; (of biology) a process wherein two organisms exchange genetic material, particularly in the context of bacteria and some algae and fungi

46. The military has _____ an abuse of human rights.

v. to do something illegal or wrong

47. The project's _____ made it difficult for the team to complete it on time.

n. the state or quality of being complicated or intricate and difficult to understand

48. I was able to _____ the moment on film.

v. to catch a person or an animal and confine them in an area which they cannot escape

49. His heartaches are less _____ now.

adj. happening constantly

ANSWERS: 42. physics, 43. vocabulary, 44. Wrap, 45. conjugation, 46. committed, 47. complexity, 48. capture, 49. frequent

50. Rebels have pledged to _____ the armed struggle against the dictatorship.

v. to increase or make something increase in extent or strength

51. Australia is widely _____ as having low levels of corruption.

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

52. Driving was difficult on the _____ cobblestoned surface.

adj. not having an even or balanced shape or arrangement; contrary to the usual rule, accepted order, or what is expected

ANSWERS: 50. intensify, 51. perceived, 52. irregular