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Vocabulary Builder Reference from...

Yannay Khaikin: How many ways can you arrange a deck of cards? | TED Talk https://www.ted.com/talks/yannay_khaikin_how_man y_ways_can_you_arrange_a_deck_of_cards



All Words

IMPORTANT

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Session 1: Word List

deck	 n. a flat surface that is usually made of wood or other material and is attached to a building, vehicle, or other structure synonym: platform, veranda, patio
	(1) deck chairs, (2) hands on deck
	She sat on the ship's deck , watching the sunset over the ocean.
shuffle	 v. to move or mix around in a casual or unorganized way; to walk with short, dragging steps synonym: jumble, muddle, rearrange
	(1) shuffle deck, (2) shuffle from side to side
	She shuffled the cards before dealing them to the players.
casino	 a business or establishment that provides gambling services, such as slot machines, table games, or sports betting; a facility or venue that hosts events or entertainment, often featuring dining or recreational amenities
	synonym: gambling house, gaming establishment, resort casino
	(1) casino floor, (2) casino games
	I won \$100 at the casino last night playing blackjack.

rearrange	 v. to change the order or position of things already made; to change the time, date, or place of an event already planned synonym: readjust, reorganize, reconstruct
	(1) rearrange the furniture (2) rearrange his schedule
	Please rearrance these files as we start a new project
	tomorrow.
arrangement	 n. a plan or preparation for the future event; the action or process of placing things in a particular order synonym: placement, configuration, account
	(1) arrangement of the furniture, (2) arrangement committee
	As a first arrangement, we agreed to meet the following Friday.
candidate	 n. a person who is seeking or being considered for some kind of position, title, honor, or award; a job applicant synonym: applicant, nominee, contender
	(1) candidate selection, (2) PhD candidate
	The candidate's platform focused on healthcare reform and reducing income inequality.
permutation	 n. the act or process of rearranging or reordering a set of elements or objects in a different sequence or configuration; a specific arrangement or order of a set of elements or objects synonym: variation, transformation, alteration
	(1) permutation formula (2) permutation test
	Scientists study the permutations of chemical elements and
	compounds to better understand their properties and
	potential uses.
initial	 adj. of or happening at the beginning; (noun) the first letter of a word, especially a person's name synonym: basic, primary, beginning
	(1) initial velocity, (2) an initial letter

	They took the initial step toward reconciliation.
scenario	 n. a description of possible actions or events in the future; a written outline of a play, film, or literary work synonym: plan, scheme, procedure
	 the worst case scenario, (2) number of different scenarios
	The president prepared several possible scenarios for an enemy attack.
individually	<i>adv.</i> separately or apart from others <i>synonym</i> : separately, one by one, independently
	(1) answer questions individually , (2) individually designed product
	Each department has done its product costing individually.
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.
achieve	 v. to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do
	synonym: accomplish, attain, reach
	(1) achieve success, (2) achieve milestones
	I will work hard to achieve my goals and realize my dreams.
emerge	 v. to move out of or away from something and become visible
	synonym: arise, occur, appear
	(1) emerge as a butterfly, (2) emerge from poverty
	During colonial eras, new migratory patterns emerged.

arrange	v. to plan, prepare for, and carry out somethingsynonym: set up, order, organize
	 (1) arrange the meeting, (2) the list was arranged alphabetically
	I need to arrange plans with him for the celebration.
consecutive	<i>adj.</i> following in a sequence or order without interruption or break; occurring one after another
	synonym: successive, sequential, uninterrupted
	(1) consecutive holidays, (2) suffer consecutive defeats
	The athlete won three consecutive championships in her sport.
integer	<i>n.</i> a whole number, either positive, negative, or zero, that is not a fraction or decimal
	synonym: whole number, real number, numeral
	(1) integer division, (2) positive integer
	The sum of two integers can be either a positive integer, a
	negative integer, or zero.
exciting	adj. causing a lot of interest or excitement
	synonym: exhilarating, stimulating, thrilling
	(1) exciting football player, (2) exciting news
	The findings of the experiment were both exciting and
	unexpected.
discovery	 n. the act or process of finding information, a place, or an object, or learning about something that was previously not known
	synonym: finding, uncovering, detection
	(1) a scientific discovery , (2) the great discovery of the century
	Her research team made an important discovery .
mathematics	<i>n.</i> 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 half for mathematics .
symbolize	 v. to represent or stand for something else, particularly an abstract concept or idea; to be an emblem or sign of something
	(1) symbolize hope, (2) symbolize freedom
	In many cultures, the color white symbolizes purity and innocence.
calculation	 n. the act or process of using numbers to judge an amount of something summers analysis, computation, estimate
	(1)
	(1) make a calculation , (2) calculation of loss and gain
	The error in the calculation was attributable to rounding.
exclamation	<i>n.</i> a sudden outcry or shout, especially one expressing strong emotion
	synonym: outcry, shout, yell
	(1) an exclamation of surprise, (2) exclamation mark
	Her sudden exclamation drew everyone's attention.
calculated	<i>adj.</i> done with careful thought or planning; deliberate and intentional; based on a process of reasoning or estimation rather than on instinct or chance
	synonym: premeditated, willful, deliberate
	(1) calculated bankruptcy, (2) calculated crime
	The company made a calculated decision to invest in new
	technology.
fortunate	adj. having good luck or lucky synonym: fortuitous, lucky, blessed
	(1) fortunate situation, (2) less fortunate person
	He was pretty fortunate to pass the exam.
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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.
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 .
calculator	<i>n.</i> a small electronic device for making arithmetic calculations
	synonym: computer, machine, estimator
	(1) calculator app, (2) analog calculator
	I left my alpha calculator at home, so I had to borrow one from a classmate to finish my math homework.
roughly	<i>adv.</i> approximately but not precisely; with a violent manner <i>synonym</i> : approximately, more or less, around
	(1) roughly explain my idea, (2) roughly speaking
	Five miles is roughly similar to eight kilometers.
bang	 v. to hit or cause to hit something in a way that makes a loud noise synonym: crash, hit, smash
	(1) bang his fist on a desk, (2) bang a phone down
	My father tried to bang mathematics into my head since childhood.

atom

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

synonym: particle, element, fraction

(1) oxygen atom, (2) neutral hydrogen atomsThe outermost electron shell of an atom determines its chemical characteristics.

Session 2: Spelling

1.	matcs competition	n.	the science dealing with the logic of quantities, shapes, spaces, and arrangement
2.	rege the furniture	v.	to change the order or position of things already made; to change the time, date, or place of an event already planned
3.	muly about hundredfold	ν.	to add a number to itself a specified number of times; to increase or cause to increase very much in number or quantity
4.	positive inr	n.	a whole number, either positive, negative, or zero, that is not a fraction or decimal
5.	fote situation	adj.	having good luck or lucky
6.	number of different scios	n.	a description of possible actions or events in the future; a written outline of a play, film, or literary work
7.	dk chairs	n.	a flat surface that is usually made of wood or other material and is attached to a building, vehicle, or other structure
8.	syze freedom	ν.	to represent or stand for something else, particularly an abstract concept or idea; to be an emblem or sign of something
9.	inl velocity	adj.	of or happening at the beginning; (noun) the first letter of a word, especially a person's name

ANSWERS: 1. mathematics, 2. rearrange, 3. multiply, 4. integer, 5. fortunate, 6. scenario, 7. deck, 8. symbolize, 9. initial

10. the worst case scio	n.	a description of possible actions or events in the future; a written outline of a play, film, or literary work
11. immune fuon	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
12. excon mark	n.	a sudden outcry or shout, especially one expressing strong emotion
13. ace milestones	v.	to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do
14. cao floor	n.	a business or establishment that provides gambling services, such as slot machines, table games, or sports betting; a facility or venue that hosts events or entertainment, often featuring dining or recreational amenities
15. are the meeting	ν.	to plan, prepare for, and carry out something
16. cate his credit score	v.	to judge or find out the amount or number of something by using mathematics
17. she deck	v.	to move or mix around in a casual or unorganized way; to walk with short, dragging steps

ANSWERS: 10. scenario, 11. function, 12. exclamation, 13. achieve, 14. casino, 15. arrange, 16. calculate, 17. shuffle

18.	bg a phone down	v.	to hit or cause to hit something in a way that makes a loud noise
19.	analog calor	n.	a small electronic device for making arithmetic calculations
20.	PhD cate	n.	a person who is seeking or being considered for some kind of position, title, honor, or award; a job applicant
21.	inr division	n.	a whole number, either positive, negative, or zero, that is not a fraction or decimal
22.	conve holidays	adj.	following in a sequence or order without interruption or break; occurring one after another
23.	suffer conve defeats	adj.	following in a sequence or order without interruption or break; occurring one after another
24.	roy explain my idea	adv.	approximately but not precisely; with a violent manner
25.	peron test	n.	the act or process of rearranging or reordering a set of elements or objects in a different sequence or configuration; a specific arrangement or order of a set of elements or objects
26.	calon of loss and gain	n.	the act or process of using numbers to judge an amount of something
27.	ace success	v.	to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do

ANSWERS: 18. bang, 19. calculator, 20. candidate, 21. integer, 22. consecutive, 23. consecutive, 24. roughly, 25. permutation, 26. calculation, 27. achieve

28.	the great diry of the century	n.	the act or process of finding information, a place, or an object, or learning about something that was previously not known
29.	the list was ared alphabetically	<i>v</i> .	to plan, prepare for, and carry out something
30.	calor app	n.	a small electronic device for making arithmetic calculations
31.	cao games	n.	a business or establishment that provides gambling services, such as slot machines, table games, or sports betting; a facility or venue that hosts events or entertainment, often featuring dining or recreational amenities
32.	roy speaking	adv.	approximately but not precisely; with a violent manner
33.	less fote person	adj.	having good luck or lucky
34.	rege his schedule	v.	to change the order or position of things already made; to change the time, date, or place of an event already planned
35.	caled crime	adj.	done with careful thought or planning; deliberate and intentional; based on a process of reasoning or estimation rather than on instinct or chance
36.	exng news	adj.	causing a lot of interest or excitement
37.	indIly designed product	adv.	separately or apart from others
38.	neutral hydrogen ams	n.	the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus

ANSWERS: 28. discovery, 29. arrange, 30. calculator, 31. casino, 32. roughly, 33. fortunate, 34. rearrange, 35. calculated, 36. exciting, 37. individually, 38. atom

39.	eme from poverty	v.	to move out of or away from something and become visible
40.	peron formula	n.	the act or process of rearranging or reordering a set of elements or objects in a different sequence or configuration; a specific arrangement or order of a set of elements or objects
41.	bg his fist on a desk	v.	to hit or cause to hit something in a way that makes a loud noise
42.	an inI letter	adj.	of or happening at the beginning; (noun) the first letter of a word, especially a person's name
43.	make a calon	n.	the act or process of using numbers to judge an amount of something
44.	exng football player	adj.	causing a lot of interest or excitement
45.	a good grounding in matcs	n.	the science dealing with the logic of quantities, shapes, spaces, and arrangement
46.	an excon of surprise	n.	a sudden outcry or shout, especially one expressing strong emotion
47.	answer questions indIly	adv.	separately or apart from others
48.	hands on dk	n.	a flat surface that is usually made of wood or other material and is attached to a building, vehicle, or other structure
49.	arrnt committee	n.	a plan or preparation for the future event; the action or process of placing things in a particular order
50.	cate selection	n.	a person who is seeking or being considered for some kind of position, title, honor, or award; a job applicant

ANSWERS: 39. emerge, 40. permutation, 41. bang, 42. initial, 43. calculation, 44. exciting, 45. mathematics, 46. exclamation, 47. individually, 48. deck, 49. arrangement, 50. candidate

51.	syze hope	ν.	to represent or stand for something else, particularly an abstract concept or idea; to be an emblem or sign of something
52.	a scientific diry	n.	the act or process of finding information, a place, or an object, or learning about something that was previously not known
53.	oxygen am	n.	the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus
54.	fuon 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
55.	caled bankruptcy	adj.	done with careful thought or planning; deliberate and intentional; based on a process of reasoning or estimation rather than on instinct or chance
56.	cate the distance	v.	to judge or find out the amount or number of something by using mathematics
57.	muly 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

ANSWERS: 51. symbolize, 52. discovery, 53. atom, 54. function, 55. calculated, 56. calculate, 57. multiply

58. eme as a butterfly	ν.	to move out of or away from something and become visible
59. arrnt of the furniture	n.	a plan or preparation for the future event; the action or process of placing things in a particular order
60. she from side to side	ν.	to move or mix around in a casual or unorganized way; to walk with short, dragging steps

ANSWERS: 58. emerge, 59. arrangement, 60. shuffle

Session 3: Fill in the Blanks

- 1. He was pretty _____ to pass the exam.
- adj. having good luck or lucky
- 2. In many cultures, the color white _____ purity and innocence.
- *v.* to represent or stand for something else, particularly an abstract concept or idea; to be an emblem or sign of something
- 3. She ______ the cards before dealing them to the players.
- v. to move or mix around in a casual or unorganized way; to walk with short, dragging steps
- 4. The sum of two _____ can be either a positive integer, a negative integer, or zero.
- *n.* a whole number, either positive, negative, or zero, that is not a fraction or decimal
- 5. I need to _____ plans with him for the celebration.
- *v.* to plan, prepare for, and carry out something
- 6. Scientists study the ______ of chemical elements and compounds to better understand their properties and potential uses.
 - *n.* the act or process of rearranging or reordering a set of elements or objects in a different sequence or configuration; a specific arrangement or order of a set of elements or objects
- 7. I won \$100 at the _____ last night playing blackjack.
- *n.* a business or establishment that provides gambling services, such as slot machines, table games, or sports betting; a facility or venue that hosts events or entertainment, often featuring dining or recreational amenities

ANSWERS: 1. fortunate, 2. symbolizes, 3. shuffled, 4. integers, 5. arrange, 6. permutations, 7. casino

- 8. He couldn't _____ the actual value of the artwork.
- *v.* to judge or find out the amount or number of something by using mathematics
- 9. As a first ______ we agreed to meet the following Friday.
- *n*. a plan or preparation for the future event; the action or process of placing things in a particular order
- 10. _____ 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
- 11. The athlete won three _____ championships in her sport.
- *adj.* following in a sequence or order without interruption or break; occurring one after another
- 12. The company made a ______ decision to invest in new technology.
- *adj.* done with careful thought or planning; deliberate and intentional; based on a process of reasoning or estimation rather than on instinct or chance
- 13. 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
- 14. My father tried to _____ mathematics into my head since childhood.
- *v*. to hit or cause to hit something in a way that makes a loud noise
- 15. They took the _____ step toward reconciliation.
- *adj.* of or happening at the beginning; (noun) the first letter of a word, especially a person's name

ANSWERS: 8. calculate, 9. arrangement, 10. Multiply, 11. consecutive, 12. calculated, 13. function, 14. bang, 15. initial

- 16. The findings of the experiment were both _____ and unexpected.
- *adj.* causing a lot of interest or excitement
- 17. During colonial eras, new migratory patterns _____.
- *v.* to move out of or away from something and become visible
- 18. The president prepared several possible ______ for an enemy attack.
- *n.* a description of possible actions or events in the future; a written outline of a play, film, or literary work
- 19. I left my alpha ______ at home, so I had to borrow one from a classmate to finish my math homework.
- *n.* a small electronic device for making arithmetic calculations
- 20. The error in the ______ was attributable to rounding.
- *n.* the act or process of using numbers to judge an amount of something
- 21. Five miles is ______ similar to eight kilometers.
- adv. approximately but not precisely; with a violent manner
- 22. The outermost electron shell of an _____ determines its chemical characteristics.
- *n.* the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus
- Her research team made an important ______.
- *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
- 24. I will work hard to _____ my goals and realize my dreams.
 - *v.* to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do

ANSWERS: 16. exciting, 17. emerged, 18. scenarios, 19. calculator, 20. calculation, 21. roughly, 22. atom, 23. discovery, 24. achieve

- 25. He has a flair for _____.
 - *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
- 26. Her sudden _____ drew everyone's attention.
- *n.* a sudden outcry or shout, especially one expressing strong emotion
- 27. She sat on the ship's _____ watching the sunset over the ocean.
 - *n.* a flat surface that is usually made of wood or other material and is attached to a building, vehicle, or other structure
- 28. The ______ platform focused on healthcare reform and reducing income inequality.
- *n.* a person who is seeking or being considered for some kind of position, title, honor, or award; a job applicant
- 29. Please ______ these files as we start a new project tomorrow.
- v. to change the order or position of things already made; to change the time, date, or place of an event already planned
- 30. Each department has done its product costing ______.
- adv. separately or apart from others

ANSWERS: 25. mathematics, 26. exclamation, 27. deck, 28. candidate's, 29. rearrange, 30. individually