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Vocabulary Builder Reference from...

Colm Kelleher: How we see color | TED Talk https://www.ted.com/talks/colm_kelleher_how_we_se e_color



All Words

IMPORTANT

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Session 1: Word List

relate	 v. to establish a connection or association between two or more things; to narrate or tell about an event, experience, or relationship; to empathize or feel sympathy with someone or something synonym: connect, link, associate 		
	(1) relate a story, (2) relate a messageHe tried to relate his experience to the group, but they couldn't understand.		
frequency	 <i>n.</i> an ordered array of colors into which a light beam can be split <i>synonym</i>: recurrence, repetition, regularity (1) frequency band, (2) high frequency The oscillator hunts for the correct frequency. 		
violet	 <i>adj.</i> between blue and purple in hue <i>synonym</i>: purple (1) bluish- violet, (2) violet quartz Red and violet are opposites on the color spectrum. 		
in-between	 <i>adj.</i> occurring or existing between two things or points; intermediate in position, condition, or time <i>synonym</i>: intermediate, middleman, halfway (1) in-between meals, (2) in-between stages 		

	She enjoyed floating in the ocean's in-between zone where the waves met the shoreline
property	<i>n.</i> a thing or things that belong to someone <i>synonym</i> : belongings, possessions, equity
	(1) a man of property , (2) chemical property
	He stood to inherit a million-dollar property.
dependent	<i>adj.</i> relying on someone or something else for support or aid <i>synonym</i> : reliant, subject, subordinate
	(1) dose- dependent induction, (2) a dependent person
	The small island nation is heavily dependent on tourism as
	its main source of income.
perception	 n. a belief, opinion, or image you have based on how you regard, understand, or interpret something; the ability to see, hear, or notice something through the senses synonym: understanding, idea, awareness
	(1) keen perception , (2) perception of a stimulus
	He is a man admired for the depth of his perception .
instance	<i>n.</i> a particular example or single occurrence of something <i>synonym</i> : example, sample, illustration
	(1) for instance , (2) notable instance
	These articles cite five instances of climate change.
overlap	<i>v.</i> to partially cover something by going beyond its edge <i>synonym</i> : overlay, cover, bespread
	(1) overlap one another, (2) overlap in many areas
	There was no overlap between their proposals.
weird	<i>adj.</i> extraordinary, unexpected, or difficult to explain <i>synonym</i> : bizarre, creepy, peculiar
	(1) a weird dress, (2) the state of being weird
	My computer has been acting weird recently.

interact	 v. to communicate or react with somebody synonym: cooperate, combine, collaborate
	(1) interact directly with customers, (2) interact with one
	another
	He should interact more with his colleagues.
coexist	 v. to live or exist together at the same time in the same place
	synonym: cohabit, accompany, synchronize
	(1) coexist with nature, (2) coexist with diversity
	The different species can coexist in the same ecosystem by filling different niches and using different resources.
singe	v. to burn something slightly or superficially, usually by mistake
	synonym: sear, char, burn
	(1) singe off the hair over the flames, (2) singe the edges of a fabric
	I didn't realize the iron was still hot and singed my dress.
harmony	 n. the combination of simultaneous musical notes to produce a pleasing effect; an attractive combination of related things and their properties synonym: balance, accord, congruence
	(1) a harmony of colors, (2) break a harmony
	We worked in perfect harmony.
biology	<i>n.</i> 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.
humming	<i>adj.</i> producing a continuous, low, vibrating sound like that of the bee
	synonym: buzzing, droning, vibrating
	(1) humming sound, (2) humming bird

	The humming of the bees filled the air as she walked through the garden.
layer	 n. a sheet, quantity, or thickness of the material, typically one of several, covering a surface or body; a level or part within a system or set of ideas synonym: stratum, sheet, coating
	(1) layer cake, (2) layer of paint
	The layer of frost on the ground was so thick it was difficult to walk on.
retina	 n. the innermost light-sensitive membrane covering the back wall of the eyeball
	(1) retinal cells, (2) retina scanner
	Damage to the retina may play a role in the development of glaucoma.
eyeball	<i>n.</i> the round part of the eye of a vertebrate that is usually inside the head and, therefore, cannot be seen
	(1) eyeball motion, (2) redness of the eyeball
	Increased eyeball pressure leads to the development of glaucoma.
detect	 v. to find or recognize something, especially something difficult to see, hear, etc. synonym: catch, observe, notice
	(1) detect a bad event, (2) detect smuggling across borders
	The security camera has detected four intruders.
rod	 n. a long, thin, straight piece of wood, metal, or other material used for support, as a weapon, or for punishment
	synonym: stick, wand, staff
	(1) rod cell, (2) curtain rod
	He used a fishing rod to catch the biggest fish of the day.

cone	n. a geometric shape that tapers to a point at one end and has a circular base at the other end
	(1) traffic cone , (2) ice cream cone
	Cone-shaped cells in the eye's retina are responsible for color vision and visual acuity.
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.
correspond	 v. to match or be similar to something else almost exactly; to exchange messages
	synonym: match, equate, communicate
	 (1) correspond to a standard, (2) correspond with a foreign student
	The numbers on the sign correspond to points on the map.
distinct	<i>adj.</i> noticeable from something else of a similar type <i>synonym</i> : different, special, characteristic
	(1) distinct difference, (2) distinct from each other
	It is essential to keep these two issues distinct .
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.
suppose	<i>v.</i> to think that something is likely to be actual or possible <i>synonym</i> : guess, assume, presume
	(1) suppose you're right, (2) suppose beforehand
	What do you suppose the culprit's motive was?
shining	<i>adj.</i> giving off or reflecting light; bright, glistening, or gleaming; characterized by impressive accomplishments or excellence

	 synonym: sparkling, gleaming, radiant (1) shining star, (2) shining example The shining sun reflected off the calm ocean water.
specifically	<i>adv.</i> only associated with or meant for one thing <i>synonym</i> : especially, particularly, notably
	(1) designed specifically for men, (2) for specifically American customers
	This ad campaign is aimed specifically at young women.
activate	<i>v.</i> make something start working, more active or dynamic <i>synonym</i> : mobilize, stimulate, initiate
	(1) activate a receptor, (2) activate a motor
	You must activate the software with a 16-digit key before you can use it.
simultaneously	adv. at the same time synonym: concurrently, coincidently, together
	(1) simultaneously affected, (2) take several inputs simultaneously
	Two students answered the teacher's question simultaneously.
regardless	<i>adv.</i> not paying attention or considering something or someone even if the situation is bad or there are difficulties
	synonym: anyhow, nevertheless, still
	(1) regardless of the difficulties, (2) regardless tread
	People can pick out superior products regardless of the quality of the advertising.
mixture	 n. a combination of different elements, substances, or entities, usually in non-uniform proportions, resulting in a homogeneous or heterogeneous blend of physical or chemical properties synonym: blend, amalgam, concoction

	(1) mixture of emotions, (2) perfect mixture
	The paint was a mixture of different pigments to achieve the desired color.
infinite	<i>adj.</i> unlimited or very great; impossible to measure <i>synonym</i> : boundless, countless, limitless
	(1) infinite appetite, (2) infinite in supply
	The battle had an infinite impact on the nation.
combination	 n. a collection of things that have been combined; an assemblage of separate parts or qualities synonym: blend, hybrid, compounding
	(1) genic combinations , (2) combination number
	The combination to the safe was a secret.
vision	 n. the ability to think about or see the future with imagination and intelligence; the faculty of being able to see
	synonym: sight, image, concept
	(1) a prodigious vision , (2) telescopic vision
	Driving is difficult for me because of my poor vision.
manufacture	 v. to make goods in large numbers, usually in a factory using machines synonym: create, fabricate, assemble
	(1) manufacture an enzyme, (2) manufacture a product
	The majority of synthetic vitamins are manufactured from oil.
simulate	 v. to make a pretense of someone's behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes
	synonym: pretend, imitate, mimic
	(1) simulate climate change, (2) simulate a future scenario
	He had painted the wood to simulate stone.

Session 2: Spelling

1.	peron of a stimulus	n.	a belief, opinion, or image you have based on how you regard, understand, or interpret something; the ability to see, hear, or notice something through the senses
2.	hug bird	adj.	producing a continuous, low, vibrating sound like that of the bee
3.	simsly affected	adv.	at the same time
4.	eyl motion	n.	the round part of the eye of a vertebrate that is usually inside the head and, therefore, cannot be seen
5.	a hay of colors	n.	the combination of simultaneous musical notes to produce a pleasing effect; an attractive combination of related things and their properties
6.	for ince	n.	a particular example or single occurrence of something
7.	the state of being wed	adj.	extraordinary, unexpected, or difficult to explain
8.	perfect mie	n.	a combination of different elements, substances, or entities, usually in non-uniform proportions, resulting in a homogeneous or heterogeneous blend of physical or chemical properties
9.	ovp in many areas	<i>v</i> .	to partially cover something by going beyond its edge

ANSWERS: 1. perception, 2. humming, 3. simultaneously, 4. eyeball, 5. harmony, 6. instance, 7. weird, 8. mixture, 9. overlap

10. ı	mie of emotions	n.	a combination of different elements, substances, or entities, usually in non-uniform proportions, resulting in a homogeneous or heterogeneous blend of physical or chemical properties
11. ı	regss of the difficulties	adv.	not paying attention or considering something or someone even if the situation is bad or there are difficulties
12. i	inen stages	adj.	occurring or existing between two things or points; intermediate in position, condition, or time
13. (dose-dent induction	adj.	relying on someone or something else for support or aid
14. ;	a prodigious vin	n.	the ability to think about or see the future with imagination and intelligence; the faculty of being able to see
15. ı	manre a product	<i>v</i> .	to make goods in large numbers, usually in a factory using machines
16. 1	frcy band	n.	an ordered array of colors into which a light beam can be split
17. :	sie the edges of a fabric	<i>v</i> .	to burn something slightly or superficially, usually by mistake
18. I	break a hay	n.	the combination of simultaneous musical notes to produce a pleasing effect; an attractive combination of related things and their properties
19. (comon number	n.	a collection of things that have been combined; an assemblage of separate parts or qualities

ANSWERS: 10. mixture, 11. regardless, 12. in-between, 13. dependent, 14. vision, 15. manufacture, 16. frequency, 17. singe, 18. harmony, 19. combination

20. inte in supply	adj.	unlimited or very great; impossible to measure
21. designed spelly for men	adv.	only associated with or meant for one thing
22. keen peron	n.	a belief, opinion, or image you have based on how you regard, understand, or interpret something; the ability to see, hear, or notice something through the senses
23. lar of paint	n.	a sheet, quantity, or thickness of the material, typically one of several, covering a surface or body; a level or part within a system or set of ideas
24. curtain r_d	n.	a long, thin, straight piece of wood, metal, or other material used for support, as a weapon, or for punishment
25. high frcy	n.	an ordered array of colors into which a light beam can be split
26. inen meals	adj.	occurring or existing between two things or points; intermediate in position, condition, or time
27. acte a motor	v.	make something start working, more active or dynamic
28. site a future scenario	v.	to make a pretense of someone's behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes

ANSWERS: 20. infinite, 21. specifically, 22. perception, 23. layer, 24. rod, 25. frequency, 26. in-between, 27. activate, 28. simulate

29. cornd to a standard	v.	to match or be similar to something else almost exactly; to exchange messages
30. cell and molecular biy	n.	the scientific study of life and the natural processes of living things
31. real cells	n.	the innermost light-sensitive membrane covering the back wall of the eyeball
32. take several inputs simsly	adv.	at the same time
33. inct directly with customers	v.	to communicate or react with somebody
34. a man of prty	n.	a thing or things that belong to someone
35. dict difference	adj.	noticeable from something else of a similar type
36. manre an enzyme	v.	to make goods in large numbers, usually in a factory using machines
37. ree a message	v.	to establish a connection or association between two or more things; to narrate or tell about an event, experience, or relationship; to empathize or feel sympathy with someone or something
38. shg star	adj.	giving off or reflecting light; bright, glistening, or gleaming; characterized by impressive accomplishments or excellence
39. permanent brn damage	n.	the organ inside the head that is responsible for one's movement, thought, memory, and feeling
40. notable ince	n.	a particular example or single occurrence of something

ANSWERS: 29. correspond, 30. biology, 31. retina, 32. simultaneously, 33. interact, 34. property, 35. distinct, 36. manufacture, 37. relate, 38. shining, 39. brain, 40. instance

41.	site climate change	v.	to make a pretense of someone's behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes
42.	det a bad event	v.	to find or recognize something, especially something difficult to see, hear, etc.
43.	r_d cell	n.	a long, thin, straight piece of wood, metal, or other material used for support, as a weapon, or for punishment
44.	evolutionary biy	n.	the scientific study of life and the natural processes of living things
45.	cornd with a foreign student	v.	to match or be similar to something else almost exactly; to exchange messages
46.	inte appetite	adj.	unlimited or very great; impossible to measure
47.	acte a receptor	v.	make something start working, more active or dynamic
48.	cot with diversity	v.	to live or exist together at the same time in the same place
49.	dict from each other	adj.	noticeable from something else of a similar type
50.	a wed dress	adj.	extraordinary, unexpected, or difficult to explain
51.	genic comons	n.	a collection of things that have been combined; an assemblage of separate parts or qualities

ANSWERS: 41. simulate, 42. detect, 43. rod, 44. biology, 45. correspond, 46. infinite, 47. activate, 48. coexist, 49. distinct, 50. weird, 51. combination

52. det smuggling across borders	v.	to find or recognize something, especially something difficult to see, hear, etc.
53. redness of the eyI	n.	the round part of the eye of a vertebrate that is usually inside the head and, therefore, cannot be seen
54. telescopic vin	n.	the ability to think about or see the future with imagination and intelligence; the faculty of being able to see
55. ice cream ce	n.	a geometric shape that tapers to a point at one end and has a circular base at the other end
56. sie off the hair over the flames	v.	to burn something slightly or superficially, usually by mistake
57. roy explain my idea	adv	approximately but not precisely; with a violent manner
58. for spelly American customers	adv	only associated with or meant for one thing
59. sue you're right	v.	to think that something is likely to be actual or possible
60. sue beforehand	v.	to think that something is likely to be actual or possible
61. cot with nature	v.	to live or exist together at the same time in the same place
62. ovp one another	v.	to partially cover something by going beyond its edge
63. vit quartz	adj.	between blue and purple in hue
64. rea scanner	n.	the innermost light-sensitive membrane covering the back wall of the eyeball

ANSWERS: 52. detect, 53. eyeball, 54. vision, 55. cone, 56. singe, 57. roughly, 58. specifically, 59. suppose, 60. suppose, 61. coexist, 62. overlap, 63. violet, 64. retina

65. inct with one another	<i>V</i> .	to communicate or react with somebody
66. basic brn function	n.	the organ inside the head that is responsible for one's movement, thought, memory, and feeling
67. a dent person	adj.	relying on someone or something else for support or aid
68. bluish-vit	adj.	between blue and purple in hue
69. ree a story	v.	to establish a connection or association between two or more things; to narrate or tell about an event, experience, or relationship; to empathize or feel sympathy with someone or something
70. traffic ce	n.	a geometric shape that tapers to a point at one end and has a circular base at the other end
71. roy speaking	adv.	approximately but not precisely; with a violent manner
72. hug sound	adj.	producing a continuous, low, vibrating sound like that of the bee
73. shg example	adj.	giving off or reflecting light; bright, glistening, or gleaming; characterized by impressive accomplishments or excellence
74. lar cake	n.	a sheet, quantity, or thickness of the material, typically one of several, covering a surface or body; a level or part within a system or set of ideas
75. chemical prty	n.	a thing or things that belong to someone

ANSWERS: 65. interact, 66. brain, 67. dependent, 68. violet, 69. relate, 70. cone, 71. roughly, 72. humming, 73. shining, 74. layer, 75. property

76. reg____ss tread

adv. not paying attention or considering something or someone even if the situation is bad or there are difficulties

ANSWERS: 76. regardless

Session 3: Fill in the Blanks

- 1. The ______ sun reflected off the calm ocean water.
- *adj.* giving off or reflecting light; bright, glistening, or gleaming; characterized by impressive accomplishments or excellence
- 2. The battle had an _____ impact on the nation.
 - adj. unlimited or very great; impossible to measure
- 3. She enjoyed floating in the ocean's _____ zone where the waves met the shoreline
- *adj.* occurring or existing between two things or points; intermediate in position, condition, or time
- The small island nation is heavily ______ on tourism as its main source of income.
- *adj.* relying on someone or something else for support or aid

5. He is a man admired for the depth of his _____.

- *n.* a belief, opinion, or image you have based on how you regard, understand, or interpret something; the ability to see, hear, or notice something through the senses
- 6. These articles cite five _____ of climate change.
- *n.* a particular example or single occurrence of something
- 7. 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

ANSWERS: 1. shining, 2. infinite, 3. in-between, 4. dependent, 5. perception, 6. instances, 7. biology

- 8. Damage to the _____ may play a role in the development of glaucoma.
- *n.* the innermost light-sensitive membrane covering the back wall of the eyeball
- 9. Five miles is ______ similar to eight kilometers.

adv. approximately but not precisely; with a violent manner

- 10. The ______ of the bees filled the air as she walked through the garden.
- *adj.* producing a continuous, low, vibrating sound like that of the bee
- 11. We worked in perfect _____.
- *n.* the combination of simultaneous musical notes to produce a pleasing effect; an attractive combination of related things and their properties
- 12. Driving is difficult for me because of my poor _____.
- *n.* the ability to think about or see the future with imagination and intelligence; the faculty of being able to see
- 13. This ad campaign is aimed ______ at young women.
- adv. only associated with or meant for one thing
- 14. People can pick out superior products ______ of the quality of the advertising.
- *adv.* not paying attention or considering something or someone even if the situation is bad or there are difficulties
- 15. The numbers on the sign ______ to points on the map.
- *v.* to match or be similar to something else almost exactly; to exchange messages
- 16. The security camera has ______ four intruders.
- *v*. to find or recognize something, especially something difficult to see, hear, etc.

ANSWERS: 8. retina, 9. roughly, 10. humming, 11. harmony, 12. vision, 13. specifically, 14. regardless, 15. correspond, 16. detected

- 17. The oscillator hunts for the correct _____.
- *n.* an ordered array of colors into which a light beam can be split
- 18. I didn't realize the iron was still hot and _____ my dress.
- *v.* to burn something slightly or superficially, usually by mistake
- 19. It is essential to keep these two issues _____.
- *adj.* noticeable from something else of a similar type
- 20. My computer has been acting _____ recently.
- adj. extraordinary, unexpected, or difficult to explain
- 21. The different species can _____ in the same ecosystem by filling different niches and using different resources.
- v. to live or exist together at the same time in the same place
- 22. The ______ to the safe was a secret.
- *n.* a collection of things that have been combined; an assemblage of separate parts or qualities
- 23. He tried to _____ his experience to the group, but they couldn't understand.
 - v. to establish a connection or association between two or more things; to narrate or tell about an event, experience, or relationship; to empathize or feel sympathy with someone or something
- 24. 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

ANSWERS: 17. frequency, 18. singed, 19. distinct, 20. weird, 21. coexist, 22. combination, 23. relate, 24. brain

- 25. Two students answered the teacher's question _____
- *adv.* at the same time
- 26. _____ cells in the eye's retina are responsible for color vision and visual acuity.
- *n.* a geometric shape that tapers to a point at one end and has a circular base at the other end
- 27. The _____ of frost on the ground was so thick it was difficult to walk on.
- *n.* a sheet, quantity, or thickness of the material, typically one of several, covering a surface or body; a level or part within a system or set of ideas
- 28. Red and _____ are opposites on the color spectrum.
- adj. between blue and purple in hue
- 29. The majority of synthetic vitamins are ______ from oil.
- *v.* to make goods in large numbers, usually in a factory using machines
- He stood to inherit a million-dollar _____.
- *n.* a thing or things that belong to someone
- 31. Increased _____ pressure leads to the development of glaucoma.
 - *n.* the round part of the eye of a vertebrate that is usually inside the head and, therefore, cannot be seen
- 32. You must ______ the software with a 16-digit key before you can use it.
- *v.* make something start working, more active or dynamic
- 33. What do you ______ the culprit's motive was?
 - v. to think that something is likely to be actual or possible

ANSWERS: 25. simultaneously, 26. Cone-shaped, 27. layer, 28. violet, 29. manufactured, 30. property, 31. eyeball, 32. activate, 33. suppose

- 34. He used a fishing _____ to catch the biggest fish of the day.
 - *n.* a long, thin, straight piece of wood, metal, or other material used for support, as a weapon, or for punishment
- 35. He had painted the wood to ______ stone.
- v. to make a pretense of someone's behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes
- 36. The paint was a ______ of different pigments to achieve the desired color.
- *n.* a combination of different elements, substances, or entities, usually in non-uniform proportions, resulting in a homogeneous or heterogeneous blend of physical or chemical properties
- 37. There was no _____ between their proposals.
- v. to partially cover something by going beyond its edge
- 38. He should _____ more with his colleagues.
- *v.* to communicate or react with somebody

ANSWERS: 34. rod, 35. simulate, 36. mixture, 37. overlap, 38. interact