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### Vocabulary Builder Reference from...

Colm Kelleher: The science of symmetry | TED Talk https://www.ted.com/talks/colm\_kelleher\_the\_science \_of\_symmetry



#### **IMPORTANT**

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#### Session 1: Word List

modulate	<ul> <li>v. to change the key, style, loudness, etc., of something in music to create a particular effect; to fix or adjust the time, amount, degree, or rate of something</li> <li>synonym: regulate, inflect, adjust</li> </ul>			
	(1) <b>modulate</b> the function, (2) <b>modulate</b> from one key to another			
	These chemicals <b>modulate</b> the effect of metabolism.			
concerto	<ul> <li><i>n</i>. a composition for one or more solo instruments and an orchestra, typically in three movements</li> <li><i>synonym</i>: symphony, composition, piece</li> </ul>			
	(1) piano concerto, (2) violin concerto			
	A renowned symphony orchestra performed the piano <b>concerto</b> .			
effortless	<ul><li><i>adj.</i> requiring little or no effort; not difficult or strenuous; easy to accomplish</li><li><i>synonym</i>: easy, simple, uncomplicated</li></ul>			
	(1) effortless victory, (2) effortless beauty			
	The dancer made her performance look <b>effortless</b> and graceful.			
prima	<i>adj.</i> of the highest quality or importance; primary or first in rank or position			

	synonym: primary, first-rate, top-notch
	(1) prima facie, (2) prima donna
	The prima ballerina wowed the audience with her graceful
	performance.
ballerina	<ul> <li>n. a female ballet (= a type of performance dance that tells a dramatic story or expresses an idea with music but no talking or singing) dancer</li> <li>synonym: dancer, danseuse</li> </ul>
	(1) classical <b>ballerina</b> , (2) famous <b>ballerina</b>
	The <b>ballerina's</b> graceful movements were a joy to watch.
unpack	<ul> <li>v. to open and remove stored items from a container or package; to analyze or examine something in detail, often to clarify or understand it better</li> </ul>
	synonym: dissect, unwrap, unbox
	(1) <b>unpack</b> a crate, (2) <b>unpack</b> a concept
	I need to <b>unpack</b> my suitcase and put my clothes away.
equilateral	<i>adj.</i> characterized by having all sides of equal length, typically used to describe a geometric shape, usually a triangle
	synonym: equal-sided, regular, isosceles
	(1) equilateral polygon, (2) equilateral shape
	An <b>equilateral</b> triangle has three equal sides and three equal angles.
rot	<ul> <li>v. to decay, or cause something to decay, naturally and gradually</li> </ul>
	synonym: perish, decay, corrode
	(1) begin to <b>rot</b> , (2) <b>rot</b> with age
	Please refrigerate the meat, or it will <b>rot</b> .
beetle	<i>n.</i> an insect having a hard shell-like back covering its wings
	(1) <b>beetle</b> brows, (2) a <b>beetle</b> larva
	In ancient civilizations, the scarab beetle was worshiped as a

sacred creature.

orchid	<ul> <li>n. a plant with showy or unusual flowers, typically having either a single, complex flower or a cluster of small flowers, many of which are prized for their beauty and often cultivated as ornamental plants</li> </ul>
	(1) orchid garden, (2) orchid species
	The orchid blooms were so delicate and beautiful.
urchin	<ul> <li>n. a poor and mischievous young child, usually living on the street or in a disadvantaged community; a small, spiny marine animal with a round body and long, pointed spines</li> </ul>
	synonym: mischief, waif, guttersnipe
	(1) urchin child, (2) street urchin
	The young boy was an <b>urchin</b> wandering the streets without a home.
starfish	<ul> <li>marine invertebrate that belongs to the phylum Echinodermata, characterized by a five-armed body shape that resembles a star, typically found on or near the seafloor</li> </ul>
	synonym: sea star, echinoderm, asteroid
	(1) starfish arm, (2) starfish habitat
	The <b>starfish's</b> unique shape helps it to escape from predators quickly.
jellyfish	<ul> <li>n. a marine creature with a soft, jelly-like body and tentacles for stinging</li> <li>synonym: medusa, sea nettle, moon jelly</li> </ul>
	(1) spineless <b>jellyfish</b> , (2) <b>jellyfish</b> sting
	The beach was filled with hundreds of jellyfish, so swimming
	was not recommended.
anemone	<i>n.</i> a type of flowering plant that has bright, showy flowers and typically blooms in the spring; a marine creature that resembles flowers but has oral rings of tentacles <i>synonym</i> :

	flower, blossom
	(1) anemone flower, (2) European anemone
	The beautiful <b>anemones</b> swayed gently in the ocean current.
asymmetric	<ul> <li>adj. lacking symmetry or balance; not corresponding in size, shape, or degree; characterized by an uneven or unequal distribution or arrangement</li> <li>synonym: uneven, lopsided, unbalanced</li> </ul>
	(1) asymmetric warfare, (2) asymmetric information
	The <b>asymmetric</b> design of the building made it stand out in the city skyline.
streamline	<ul> <li>v. to simplify or make more efficient by eliminating unnecessary parts or steps</li> <li>synonym: simplify, optimize, make more efficient</li> </ul>
	(1) <b>streamline</b> administrative activities, (2) <b>streamline</b> workflow
	The government plans to <b>streamline</b> the tax collection process to make it more efficient.
aerodynamics	<ul> <li>n. the study of the motion of air, particularly its interaction with solid objects moving through it, such as aircraft or cars</li> </ul>
	synonym: aeromechanics, aeronautics, airflow
	(1) aerodynamics research, (2) aerodynamics design The aerodynamics of the car allowed it to glide smoothly through the air.
larva	<ul> <li>n. the immature free-living form of insect or an animal, which at hatching from the egg, is fundamentally unlike its parent and must metamorphose</li> <li>synonym: caterpillar, grub, maggot</li> </ul>
	(1) <b>larva</b> of a butterfly, (2) a moth <b>larva</b>
	The butterfly emerged from its <b>larva</b> stage.

reconstruct	<ul> <li>v. to build or form something again that has been damaged or destroyed</li> <li>synonym: rebuild, revamp, reorganize</li> </ul>				
	(1) <b>reconstruct</b> an image, (2) <b>reconstruct</b> the original text				
	They've decided to <b>reconstruct</b> a ruined castle.				
diverge	<ul> <li>v. to move or extend in different directions from a common point; to branch off or deviate from a path or course</li> <li>synonym: separate, split, part</li> </ul>				
	(1) <b>diverge</b> from tradition, (2) <b>diverge</b> from the main topic				
	As tectonic plates <b>diverge,</b> new oceanic crust is formed along mid-ocean ridges.				

## **Session 2: Spelling**

1.	famous bana	n.	a female ballet (= a type of performance dance that tells a dramatic story or expresses an idea with music but no talking or singing) dancer
2.	ord garden	n.	a plant with showy or unusual flowers, typically having either a single, complex flower or a cluster of small flowers, many of which are prized for their beauty and often cultivated as ornamental plants
3.	laa of a butterfly	n.	the immature free-living form of insect or an animal, which at hatching from the egg, is fundamentally unlike its parent and must metamorphose
4.	strne workflow	v.	to simplify or make more efficient by eliminating unnecessary parts or steps
5.	a bee larva	n.	an insect having a hard shell-like back covering its wings
6.	strne administrative activities	ν.	to simplify or make more efficient by eliminating unnecessary parts or steps
7.	violin coto	n.	a composition for one or more solo instruments and an orchestra, typically in three movements
8.	unk a crate	v.	to open and remove stored items from a container or package; to analyze or examine something in detail, often to clarify or understand it better

ANSWERS: 1. ballerina, 2. orchid, 3. larva, 4. streamline, 5. beetle, 6. streamline, 7. concerto, 8. unpack

9. effss victory	adj.	requiring little or no effort; not difficult or strenuous; easy to accomplish
10. unk a concept	v.	to open and remove stored items from a container or package; to analyze or examine something in detail, often to clarify or understand it better
11. spineless jesh	n.	a marine creature with a soft, jelly-like body and tentacles for stinging
12. aerics research	n.	the study of the motion of air, particularly its interaction with solid objects moving through it, such as aircraft or cars
13. die from tradition	v.	to move or extend in different directions from a common point; to branch off or deviate from a path or course
14. asyic information	adj.	lacking symmetry or balance; not corresponding in size, shape, or degree; characterized by an uneven or unequal distribution or arrangement
15. mote the function	v.	to change the key, style, loudness, etc., of something in music to create a particular effect; to fix or adjust the time, amount, degree, or rate of something
16. bee brows	n.	an insect having a hard shell-like back covering its wings
17. begin to r_t	v.	to decay, or cause something to decay, naturally and gradually
18. equal shape	adj.	characterized by having all sides of equal length, typically used to describe a geometric shape, usually a triangle

ANSWERS: 9. effortless, 10. unpack, 11. jellyfish, 12. aerodynamics, 13. diverge, 14. asymmetric, 15. modulate, 16. beetle, 17. rot, 18. equilateral

19. die from the main topic	v.	to move or extend in different directions from a common point; to branch off or deviate from a path or course
20. stsh arm	n.	marine invertebrate that belongs to the phylum Echinodermata, characterized by a five-armed body shape that resembles a star, typically found on or near the seafloor
21. equal polygon	adj.	characterized by having all sides of equal length, typically used to describe a geometric shape, usually a triangle
22. mote from one key to another	v.	to change the key, style, loudness, etc., of something in music to create a particular effect; to fix or adjust the time, amount, degree, or rate of something
23. European ane	n.	a type of flowering plant that has bright, showy flowers and typically blooms in the spring; a marine creature that resembles flowers but has oral rings of tentacles
24. pra facie	adj.	of the highest quality or importance; primary or first in rank or position
25. stsh habitat	n.	marine invertebrate that belongs to the phylum Echinodermata, characterized by a five-armed body shape that resembles a star, typically found on or near the seafloor
26. effss beauty	adj.	requiring little or no effort; not difficult or strenuous; easy to accomplish
27. r_t with age	v.	to decay, or cause something to decay, naturally and gradually

ANSWERS: 19. diverge, 20. starfish, 21. equilateral, 22. modulate, 23. anemone, 24. prima, 25. starfish, 26. effortless, 27. rot

28. jesh sting	n.	a marine creature with a soft, jelly-like body and tentacles for stinging
29. recct an image	ν.	to build or form something again that has been damaged or destroyed
30. street urn	n.	a poor and mischievous young child, usually living on the street or in a disadvantaged community; a small, spiny marine animal with a round body and long, pointed spines
31. ord species	n.	a plant with showy or unusual flowers, typically having either a single, complex flower or a cluster of small flowers, many of which are prized for their beauty and often cultivated as ornamental plants
32. classical bana	n.	a female ballet (= a type of performance dance that tells a dramatic story or expresses an idea with music but no talking or singing) dancer
33. piano coto	n.	a composition for one or more solo instruments and an orchestra, typically in three movements
34. asyic warfare	adj.	lacking symmetry or balance; not corresponding in size, shape, or degree; characterized by an uneven or unequal distribution or arrangement
35. aerics design	n.	the study of the motion of air, particularly its interaction with solid objects moving through it, such as aircraft or cars

ANSWERS: 28. jellyfish, 29. reconstruct, 30. urchin, 31. orchid, 32. ballerina, 33. concerto, 34. asymmetric, 35. aerodynamics

36. ane flower	n.	a type of flowering plant that has bright, showy flowers and typically blooms in the spring; a marine creature that resembles flowers but has oral rings of tentacles
37. pra donna	adj.	of the highest quality or importance; primary or first in rank or position
38. a moth laa	n.	the immature free-living form of insect or an animal, which at hatching from the egg, is fundamentally unlike its parent and must metamorphose
39. urn child	n.	a poor and mischievous young child, usually living on the street or in a disadvantaged community; a small, spiny marine animal with a round body and long, pointed spines
40. recct the original text	v.	to build or form something again that has been damaged or destroyed

ANSWERS: 36. anemone, 37. prima, 38. larva, 39. urchin, 40. reconstruct

### Session 3: Fill in the Blanks

- 1. The \_\_\_\_\_ blooms were so delicate and beautiful.
- *n*. a plant with showy or unusual flowers, typically having either a single, complex flower or a cluster of small flowers, many of which are prized for their beauty and often cultivated as ornamental plants
- 2. The beautiful \_\_\_\_\_\_ swayed gently in the ocean current.
- *n*. a type of flowering plant that has bright, showy flowers and typically blooms in the spring; a marine creature that resembles flowers but has oral rings of tentacles
- 3. A renowned symphony orchestra performed the piano \_\_\_\_\_.
- *n.* a composition for one or more solo instruments and an orchestra, typically in three movements
- 4. The \_\_\_\_\_\_ graceful movements were a joy to watch.
- *n*. a female ballet (= a type of performance dance that tells a dramatic story or expresses an idea with music but no talking or singing) dancer
- 5. The beach was filled with hundreds of \_\_\_\_\_\_ so swimming was not recommended.
- *n.* a marine creature with a soft, jelly-like body and tentacles for stinging
- 6. The \_\_\_\_\_ ballerina wowed the audience with her graceful performance.
- *adj.* of the highest quality or importance; primary or first in rank or position
- 7. An \_\_\_\_\_\_ triangle has three equal sides and three equal angles.
- *adj.* characterized by having all sides of equal length, typically used to describe a geometric shape, usually a triangle

ANSWERS: 1. orchid, 2. anemones, 3. concerto, 4. ballerina's, 5. jellyfish, 6. prima, 7. equilateral

- 8. As tectonic plates \_\_\_\_\_\_ new oceanic crust is formed along mid-ocean ridges.
- v. to move or extend in different directions from a common point; to branch off or deviate from a path or course
- 9. The \_\_\_\_\_\_ of the car allowed it to glide smoothly through the air.
- *n.* the study of the motion of air, particularly its interaction with solid objects moving through it, such as aircraft or cars
- 10. The government plans to \_\_\_\_\_\_ the tax collection process to make it more efficient.
- *v.* to simplify or make more efficient by eliminating unnecessary parts or steps
- 11. The \_\_\_\_\_\_ unique shape helps it to escape from predators quickly.
- *n.* marine invertebrate that belongs to the phylum Echinodermata, characterized by a five-armed body shape that resembles a star, typically found on or near the seafloor
- 12. The \_\_\_\_\_\_ design of the building made it stand out in the city skyline.
- *adj.* lacking symmetry or balance; not corresponding in size, shape, or degree; characterized by an uneven or unequal distribution or arrangement
- 13. The dancer made her performance look \_\_\_\_\_\_ and graceful.
- *adj.* requiring little or no effort; not difficult or strenuous; easy to accomplish
- 14. Please refrigerate the meat, or it will \_\_\_\_\_.
- v. to decay, or cause something to decay, naturally and gradually
- 15. They've decided to \_\_\_\_\_\_ a ruined castle.
- v. to build or form something again that has been damaged or destroyed

ANSWERS: 8. diverge, 9. aerodynamics, 10. streamline, 11. starfish's, 12. asymmetric, 13. effortless, 14. rot, 15. reconstruct

- 16. In ancient civilizations, the scarab \_\_\_\_\_ was worshiped as a sacred creature.
- *n.* an insect having a hard shell-like back covering its wings
- 17. The young boy was an \_\_\_\_\_ wandering the streets without a home.
- *n*. a poor and mischievous young child, usually living on the street or in a disadvantaged community; a small, spiny marine animal with a round body and long, pointed spines
- 18. I need to \_\_\_\_\_ my suitcase and put my clothes away.
- v. to open and remove stored items from a container or package; to analyze or examine something in detail, often to clarify or understand it better
- 19. The butterfly emerged from its \_\_\_\_\_ stage.
- *n.* the immature free-living form of insect or an animal, which at hatching from the egg, is fundamentally unlike its parent and must metamorphose
- 20. These chemicals \_\_\_\_\_\_ the effect of metabolism.
- *v.* to change the key, style, loudness, etc., of something in music to create a particular effect; to fix or adjust the time, amount, degree, or rate of something

ANSWERS: 16. beetle, 17. urchin, 18. unpack, 19. larva, 20. modulate