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Vocabulary Builder Reference from...

Kelsey Johnson: The problem of light pollution -- and 5 ridiculously easy ways to fix it | TED Talk https://www.ted.com/talks/kelsey_johnson_the_proble m_of_light_pollution_and_5_ridiculously_easy_ways_ to_fix_it



Advanced Words Only

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Session 1: Word List

photogenic

adj. having an attractive appearance or quality when photographed; appearing well in photographs or on filmsynonym: photographic, camera-friendly, picturesque

(1) **photogenic** face, (2) **photogenic** nature

The actress was extremely **photogenic**, making her a sought-after model for many beauty brands.

illuminating

adj. making something clear or easy to understand; providing light

synonym: enlightening, informative, clarifying

(1) **illuminating** light, (2) an **illuminating** answer The lecture was **illuminating** and gave me a new perspective on the topic.

catastrophe

- n. a sudden event that causes extreme ruin and misfortunesynonym: disaster, calamity, cataclysm
- (1) **catastrophe** risk management, (2) avoid climate **catastrophe**

The lack of funds has resulted in a **catastrophe** for our university system.

astronomer

n. a physicist who studies astronomy

synonym: stargazer, cosmologist, astrophysicist

(1) amateur astronomer, (2) solar astronomer

This question has fascinated solar **astronomers** for decades.

cliche

 a phrase or expression that has become overused to the point that it has lost its original impact or meaning; a trite or unoriginal idea or statement

synonym: truism, platitude, stereotype

(1) cliche plot, (2) age-old cliche

Using the same **cliche** phrase in every conversation can take time and effort.

swarm

 a group of many things, such as insects, fishes, etc., in the air or water or on the ground

synonym: horde, hive, throng

(1) a **swarm** of mosquitoes, (2) locust **swarm**

A **swarm** of angry bees attacked because we had approached the hive.

mosquito

 a small flying insect whose female bites people and animals and sucks their blood, and sometimes transmits serious diseases such as malaria

synonym: insect, bug, flea

(1) mosquito bite, (2) mosquito repellent

A stagnant water area are breeding ground for **mosquitos**.

fleeting

adj. brief or temporary, lasting only a short time

synonym: temporary, brief, transitory

(1) for a **fleeting** moment, (2) **fleeting** opportunity

She savored the **fleeting** happiness she felt during the vacation.

vertigo

 a feeling of dizziness or disorientation often caused by a disturbance in the inner ear; a sensation or feeling of being unsteady or losing one's balance

synonym: dizziness, lightheadedness, unsteadiness

(1) **vertigo** symptoms, (2) suffer from **vertigo**The sudden drop on the rollercoaster gave me a wave of **vertigo**.

fathomable

adj. able to be understood or comprehended; able to be measured or explored to a certain depth

synonym: understandable, comprehensible, intelligible

(1) **fathomable** explanation, (2) **fathomable** solution The scientific theories presented in the book were **fathomable** even to non-experts.

insignificant

adj. of little importance, influence, or power *synonym*: unimportant, trivial, irrelevant

(1) **insignificant** amount, (2) an **insignificant** mistake He made me feel small and **insignificant**.

constellation

 a group of stars that form a recognizable pattern and have a name; a group of related or similar ideas, things, or people

synonym: asterism, array, pattern

(1) the stars of the Scorpion **constellation**, (2) northern **constellation**

Navigators still use the Little Bear constellation at sea.

coincident

adj. happening or operating in the same place or at the same time

synonym: concurrent, accompanying, coextensive

(1) **coincident** indicators, (2) a series of **coincident** events **Coincident** with the negotiation, the bank was permitted to open a Beijing branch.

majesty

n. regal or royal dignity; grandeur or greatnesssynonym: grandeur, royalty, eminence

(1) morning **majesty**, (2) **majesty** of nature The king's **majesty** was apparent in his elegant attire and powerful presence.

unremarkable

adj. ordinary and not particularly interesting synonym: commonplace, unmemorable, mundane

- (1) completely ordinary and unremarkable,
- (2) unremarkable in looks

He was very busy at work but otherwise led an unremarkable life.

featureless

adj. lacking distinctive qualities, characteristics, or features;plain, unremarkable, or nondescript

synonym: blank, plain, feature-free

(1) **featureless** landscape, (2) **featureless** interior The wall was **featureless**, with no patterns or designs to break up its dullness.

smog

 a type of air pollution that forms a mixture of smoke and fog resulting from the combustion of fossil fuels, industrial activity, and motor vehicle emissions in urban areas

synonym: smog, haze, pollution

(1) smog alert, (2) toxic smog

The heavy **smog** in the city was causing health issues for the residents.

cosmos

 another name for the universe, mainly used when it is thought of as an ordered system

synonym: universe, macrocosm

(1) exploration of **cosmos**, (2) origin of the **cosmos**Supercomputers enable scientists to create computational models of the **cosmos**.

whimsical

adj. unusual and not severe in a way that might be funny or annoying; determined by chance or impulse or whim rather than by necessity or reason

synonym: capricious, impulsive, flighty

(1) **whimsical** reasons, (2) a **whimsical** person Much of his painting has a **whimsical** quality.

pollinator

n. an animal or insect, such as bees, butterflies, birds, etc., that carries pollen from a male part of a flower to a female part of a flower, fertilizing it and allowing it to produce seeds

synonym: fertilizer, pollenizer, pollen carrier

(1) pollinator species, (2) beneficial pollinator

Bees are important **pollinators** for many crops and plants.

unassuming

adj. not arrogant, bold, or forwardsynonym: diffident, humble, modest

(1) **unassuming** appearance, (2) an **unassuming** fashion His **unassuming** manner concealed his ambition.

whelk

- a type of marine snail with a spiral shell and a large foot used for movement and capturing prey, often used for food or as bait for fishing
- (1) whelk meat, (2) whelk fishery

The **whelk** shells on the beach were a sign of the thriving ecosystem in the area.

brisk

adj. lively and energeticsynonym: energetic, lively, fast-moving

(1) **brisk** argument, (2) **brisk** autumn weather

She walked with a brisk pace, eager to reach her destination.

barnacle

n. a type of crustacean that attaches itself to hard surfaces underwater, such as rocks, ships, or docks; a metaphorical term used to describe a person or object that is difficult to remove or separate from another person or object

synonym: cirripede, shellfish, crustacean

(1) barnacle growth, (2) barnacle removal

The bottom of the boat was covered in **barnacles**, slowing its speed in the water.

invertebrate

 a class of animals that do not have a backbone; they include insects, worms, and mollusks synonym: animal, mollusk, worm

(1) **invertebrate** species, (2) study of **invertebrates**Many species of marine **invertebrates**, such as corals and sponges, are important components of ocean ecosystems.

predator

- n. an animal whose natural behavior is to prey on otherssynonym: vulture, bloodsucker
- (1) apex **predator**, (2) sexual **predators**The native South American animals were in danger because of the **predator's** arrival.

snail

 a slow-moving mollusk with a spiral shell that it uses to protect its body

synonym: escargot, slug, whelk

(1) **snail** mail, (2) **snail** pace

The gardener found a **snail** slowly making its way through the lettuce patch.

precarious

- adj. not securely held or in position; dangerously unstable or uncertain; dependent on chance or uncertain conditionssynonym: precariousness, instability, uncertainty
- (1) **precarious** job, (2) **precarious** financial situation She had a **precarious** hold on the ladder and was afraid to move.

replenish

- v. to fill something that had previously been emptied synonym: refill, reload, restock
- (1) **replenish** a reserve fund, (2) **replenish** my spirit Please **replenish** my glass with some more wine.

slimy

adj. covered with or having a slippery, viscous coating;
 repulsively slippery or oozy; containing or resembling slime

synonym: slippery, mucky, mucous

slimy substance, (2) slimy green algae
 The slimy texture of the seafood dish made me feel queasy.

unleash

v. to suddenly release a strong force, emotion, etc. that cannot be controlled

synonym: discharge, free, release

(1) **unleash** a hound, (2) **unleash** her anger

The general was still reluctant to **unleash** his troops in pursuit of an enemy.

cascade

- n. a small waterfall or series of small waterfalls; a succession of stages or operations or processes or units
 synonym: waterfall, watercourse, step
- (1) **cascade** connection, (2) transistor **cascade**The **cascade** of waterfalls in the national park was a breathtaking sight.

correlate

v. to have a connection or relationship in which one thing affects or depends on another

synonym: associate, liken, connect

(1) **correlate** closely with the quality, (2) **correlate** to the size

We may frequently **correlate** age with the frequency of disease.

melatonin

- n. a hormone that is produced by the pineal gland in the brain and that helps to regulate sleep-wake cyclessynonym: pineal hormone, sleep hormone, chronobiotic
- (1) disrupt **melatonin** production, (2) **melatonin** receptor A **melatonin** supplement can help regulate sleep-wake cycles in people with insomnia.

circadian

adj. relating to a physiological cycle that lasts approximately 24 hours, impacting physical and behavioral changes that occur over the course of a day, such as sleep-wake cycles or fluctuations in hormones

synonym: daily, diurnal, day-to-day

(1) **circadian** clock, (2) **circadian** disruption Having a consistent sleep schedule is important for maintaining a healthy **circadian** rhythm.

retina

- 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.

disrupt

v. to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance

synonym: interrupt, disturb, break into

(1) **disrupt** a well-ordered condition, (2) **disrupt** sleep I'm so sorry to **disrupt** you when you're pretty busy.

whack

- v. to hit someone or something hard or noisily synonym: hit, strike, bash
- (1) **whack** him with a stick, (2) **whack** up the volume He **whacked** the ball out of the park with his home run.

carcinogenic

adj. capable of causing cancer or promoting tumor growth; cancer-causing

synonym: cancer-causing, cancerous, malignant

(1) **carcinogenic** chemicals, (2) **carcinogenic** air pollution Long-term exposure to **carcinogenic** materials can result in serious health problems.

windmill

 a machine that uses wind power to generate mechanical energy or electricity

synonym: wind turbine, aerogenerator

(1) **windmill** blades, (2) **windmill** energy
The countryside was dotted with picturesque **windmills**.

creditor

- *n.* a person, company, etc. to whom a debtor owes money
- the creditor's claims, (2) bankrupt creditor
 asked the lawyer to initiate creditor negotiations for voluntary liquidation.

perpetual

adj. continuing for an extended period in the same way without stopping or being interrupted

synonym: enduring, unchanging, incessant

(1) **perpetual** motion machine, (2) **perpetual** struggle The company employs a **perpetual** inventory system.

twilight

 the soft, diffused light from the sky when the sun is below the horizon, either from sunrise to sunrise or sunset to sunset

synonym: dusk, sunset, gloaming

(1) twilight sky, (2) twilight of an era

The sky was a beautiful pink and orange color at twilight.

swamp

 an area of low-lying land that is flooded or saturated with water, often having a growth of natural vegetation

synonym: marsh, mire, bog

(1) muddy swamp, (2) swamp tour

The lowland **swamp** was full of dangerous animals and poisonous plants.

exceedingly

adv. to an extreme degree

synonym: enormously, especially, exceptionally

(1) **exceedingly** common, (2) an **exceedingly** difficult book Fear is **exceedingly** infectious, and children catch it from their elders.

outnumber

v. to be more numerous or greater in number than another group or entity; to exceed in quantity or number

synonym: surpass, exceed

(1) **outnumber** our opponents, (2) **outnumber** males The number of tourists in the city now **outnumbers** the locals.

intractable

adj. difficult to manage or control; stubborn or obstinate *synonym*: obstinate, stubborn, unyielding

(1) intractable pain, (2) intractable situation

The **intractable** problem defied a solution.

politely

adv. in a courteous or respectful manner, showing good manners or consideration for others

synonym: courteously, respectfully, graciously

(1) politely ask, (2) nodded politely

She **politely** declined the invitation to the party, saying she had other plans.

pollute

 to make an area or substance, such as land, air, water, etc., dirty or harmful to living things by adding waste matter or harmful chemicals

synonym: contaminate, corrupt, degrade

(1) pollute the air, (2) pollute the thread

We should do our best not to **pollute** the environment.

Session 2: Spelling

1.	unh her anger	ν.	to suddenly release a strong force, emotion, etc. that cannot be controlled
2.	twht sky	n.	the soft, diffused light from the sky when the sun is below the horizon, either from sunrise to sunrise or sunset to sunset
3.	phoic face	adj.	having an attractive appearance or quality when photographed; appearing well in photographs or on film
4.	cathe risk management	n.	a sudden event that causes extreme ruin and misfortune
5.	illing light	adj.	making something clear or easy to understand; providing light
6.	fatle explanation	adj.	able to be understood or comprehended; able to be measured or explored to a certain depth
7.	preus financial situation	adj.	not securely held or in position; dangerously unstable or uncertain; dependent on chance or uncertain conditions
8.	for a flng moment	adj.	brief or temporary, lasting only a short time
9.	exploration of cos	n.	another name for the universe, mainly used when it is thought of as an ordered system
10.	transistor ca e	n.	a small waterfall or series of small

ANSWERS: 1. unleash, 2. twilight, 3. photogenic, 4. catastrophe, 5. illuminating, 6. fathomable, 7. precarious, 8. fleeting, 9. cosmos, 10. cascade

waterfalls; a succession of stages or

operations or processes or units

16. intractable, 17. windmill, 18. whelk, 19. melatonin, 20. pollute

32.	feass landscape	adj.	lacking distinctive qualities, characteristics, or features; plain, unremarkable, or nondescript
33.	wiII blades	n.	a machine that uses wind power to generate mechanical energy or electricity
34.	bankrupt cror	n.	a person, company, etc. to whom a debtor owes money
35.	unrble in looks	adj.	ordinary and not particularly interesting
36.	resh my spirit	<i>v</i> .	to fill something that had previously been emptied
37.	whk up the volume	v.	to hit someone or something hard or noisily
38.	whal reasons	adj.	unusual and not severe in a way that might be funny or annoying; determined by chance or impulse or whim rather than by necessity or reason
39.	ouer our opponents	ν.	to be more numerous or greater in number than another group or entity; to exceed in quantity or number
40.	resh a reserve fund	<i>v</i> .	to fill something that had previously been emptied
41.	poly ask	adv.	in a courteous or respectful manner, showing good manners or consideration for others
42.	an unang fashion	adj.	not arrogant, bold, or forward
43.	the cror's claims	n.	a person, company, etc. to whom a debtor owes money
	SWERS: 32. featureless, 33. windmill, 3		

replenish, 37. whack, 38. whimsical, 39. outnumber, 40. replenish, 41. politely, 42. unassuming, 43. creditor

ANSWERS: 44. slimy, 45. barnacle, 46. perpetual, 47. cosmos, 48. smog, 49. outnumber, 50. correlate, 51. swamp, 52. politely

of causing cancer or promoting owth; cancer-causing all or insect, such as bees, es, birds, etc., that carries poller hale part of a flower to a female flower, fertilizing it and allowing fluce seeds
es, birds, etc., that carries poller nale part of a flower to a female flower, fertilizing it and allowing
noving mollusk with a spiral tit uses to protect its body
lying insect whose female bites and animals and sucks their and sometimes transmits serious a such as malaria
waterfall or series of small s; a succession of stages or ns or processes or units
a connection or relationship in ne thing affects or depends on
emporary, lasting only a short
al whose natural behavior is to others
ng or operating in the same at the same time
of causing cancer or promoting owth; cancer-causing
rmost light-sensitive membrane the back wall of the eyeball
r

ANSWERS: 53. carcinogenic, 54. pollinator, 55. snail, 56. mosquito, 57. cascade, 58. correlate, 59. fleeting, 60. predator, 61. coincident, 62. carcinogenic, 63. retina

constellation, 70. smog, 71. constellation, 72. barnacle

ANSWERS: 73. pollute, 74. intractable, 75. vertigo, 76. slimy, 77. invertebrate, 78. perpetual, 79. brisk, 80. disrupt, 81. snail, 82. predator, 83. illuminating

ANSWERS: 84. swamp, 85. swarm, 86. whelk, 87. photogenic, 88. pollinator, 89. precarious, 90. unremarkable, 91. unassuming, 92. retina, 93. twilight

94.	insant amount	adj.	of little importance, influence, or power
95.	cle plot	n.	a phrase or expression that has become overused to the point that it has lost its original impact or meaning; a trite or unoriginal idea or statement
96.	dit sleep	v.	to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance
97.	a whal person	adj.	unusual and not severe in a way that might be funny or annoying; determined by chance or impulse or whim rather than by necessity or reason
98.	coint indicators	adj.	happening or operating in the same place or at the same time

ANSWERS: 94. insignificant, 95. cliche, 96. disrupt, 97. whimsical, 98. coincident

Session 3: Fill in the Blanks

1.	The sky was a beautiful pink and orange color at
n.	the soft, diffused light from the sky when the sun is below the horizon, either from sunrise to sunrise or sunset to sunset
2.	A stagnant water area are breeding ground for
n.	a small flying insect whose female bites people and animals and sucks their blood, and sometimes transmits serious diseases such as malaria
3.	Having a consistent sleep schedule is important for maintaining a healthy rhythm.
adj.	relating to a physiological cycle that lasts approximately 24 hours, impacting physical and behavioral changes that occur over the course of a day, such as sleep-wake cycles or fluctuations in hormones
	Many species of marine such as corals and sponges, are important components of ocean ecosystems.
n.	a class of animals that do not have a backbone; they include insects, worms, and mollusks
5.	Using the same phrase in every conversation can take time and effort.
n.	a phrase or expression that has become overused to the point that it has lost its original impact or meaning; a trite or unoriginal idea or statement
3.	The problem defied a solution.
adj.	difficult to manage or control; stubborn or obstinate
7.	The general was still reluctant to his troops in pursuit of an enemy.
v.	to suddenly release a strong force, emotion, etc. that cannot be controlled
	SWERS: 1. twilight, 2. mosquitos, 3. circadian, 4. invertebrates, 5. cliche, 6. actable, 7. unleash

-Build	der Ref from	"Kelsey Johnson: The pr	oblem of light polluti	on and 5 ridicul	ously easy ways to	fix it TED Talk" (49 w
48.	Long-terr problems	m exposure to	m	aterials can	result in seriou	ıs health
adj	. capable	e of causing cance	er or promoting	tumor grow	th; cancer-cau	sing
49.	The num	ber of tourists in tl	ne city now	th	e locals.	
ν.		ore numerous or in quantity or num		ber than ano	ther group or (entity; to
AN	SWERS: 4	48. carcinogenic,	49. outnumber	rs		