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Vocabulary Builder Reference from...

Maria Gallucci: The carbonless fuel that could change how we ship goods | TED Talk https://www.ted.com/talks/maria_gallucci_the_carbonl ess_fuel_that_could_change_how_we_ship_goods



Advanced Words Only

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Session 1: Word List

pollute

v. 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.

incurable

adj. not able to be cured, healed, or remedied; beyond recovery or redemption

synonym: unrecoverable, irreparable, hopeless

(1) incurable patient, (2) incurable romantic

The patient was diagnosed with an **incurable** disease and given only a few months to live.

seasick

adj. feeling ill or nauseous as a result of being on a ship or boat that is moving or rocking back and forth in a rough sea; suffering from motion sickness

synonym: nauseous, seasickness, queasy

(1) avoid getting **seasick**, (2) **seasick** medication

The rough waves made some passengers feel **seasick** during the boat ride.

fume

v. to emit gas, smoke, vapor, or a strong, unpleasant odor; to show anger, irritation, or annoyance in a visible way; (noun) gas or vapor that is emitted from a substance, usually as a result of heating or combustion

synonym: smoke, vaporize, emit

(1) fume with anger, (2) acrid fumes

The angry customer began to **fume** when their order was delayed.

spew

 to eject forcefully and abundantly; to flow out rapidly and in large amounts

synonym: vomit, spout, discharge

(1) spew carbon dioxide, (2) spew insults

The volcano started to **spew** lava and ash, causing panic among residents.

freighter

 a ship, aircraft, or other vehicle used for transporting cargo or goods in bulk

synonym: cargo ship, transport vessel, container vessel

(1) freighter ship, (2) bulk freighter

The **freighter** crew worked around the clock to unload the cargo at the port.

cardamom

n. a spice made from the seeds of several plants belonging to the ginger family, used in both sweet and savory dishes for its strong, warm, and slightly sweet flavor and aroma

synonym: spice, seasoning, flavoring

(1) cardamom tea, (2) cardamom rice

I love the flavor of **cardamom** in my chai tea.

camomile

- a plant with white, daisy-like flowers that is widely used to make tea and herbal remedies, known for its calming and soothing qualities
- (1) camomile-extract, (2) camomile scent

Camomile tea is known for its calming effects on the body and mind.

chug

v. to make a dull, steady, and repetitive sound, as if from an engine or machine; to drink, especially alcohol, quickly and in large quantities; (noun) the sound made by a vehicle, particularly a train or a boat, as it moves steadily and slowly

synonym: chuff, puff, toot

(1) chug on a cigarette, (2) chug beer

The old locomotive **chugged** slowly along the tracks, pulling a long line of freight cars.

industrious

adj. hardworking, diligent, and persistent in effort synonym: diligent, hardworking, assiduous

(1) **industrious** worker, (2) **industrious** student He was known to be very **industrious** and would often work late into the night.

rev

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**.

ammonia

- a compound of nitrogen and hydrogen that forms a gas with a strong smell, used as cleaning substances, fertilizers, and explosives
- (1) **ammonia** water, (2) inhale **ammonia** fumes
 The advent of **ammonia** fertilizers markedly increased agricultural productivity.

stink

v. to emit a strong, unpleasant odor; to have a strong offensive smell; to be corrupt or unethical

synonym: reek, smell, odor

(1) **stink** up the place, (2) **stink** badly

The garbage in the alley began to **stink** after a few hot days.

crisscross

- v. to move or make lines that intersect or cross each other in a pattern resembling a series of X's
- (1) **crisscross** over the edges of the walls, (2) **crisscross** my heart

The roads **crisscrossed** through the countryside, creating a beautiful scenic drive.

emit

v. to give off or send out something such as light, heat, sound, gas, etc.

synonym: give off, radiate, expel

(1) emit a gamma ray, (2) emit air pollution

During the unloading, the container box **emits** a clicking sound.

soar

v. to fly or rise very high or to a great height, often with great grace or ease

synonym: fly, rise, ascend

(1) **soar** in popularity, (2) **soar** to new heights

The bird **soared** through the sky, and its wings spread wide.

confer

v. to have a meeting or discussion to come to a decision or agreement or exchange ideas; to bestow something

synonym: consult, meet, discuss

(1) **confer** degree, (2) **confer** honor

The leaders of the two countries met to **confer** on the issue.

coalesce

 to come together or merge into a single group, mass, or whole; to blend or combine elements or ideas into a unified whole

synonym: merge, combine, unite

(1) **coalesce** ideas, (2) **coalesce** with the other

The various departments of the company will **coalesce** into one cohesive unit.

shipbuilder

 a person or company that builds ships, typically working with steel and other durable materials to construct both commercial and military vessels

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synonym: shipwright, boatbuilder, naval architect

(1) **shipbuilder** industry, (2) **shipbuilder** contract

The **shipbuilder's** expertise in naval architecture made them the top choice for the job.

pungent

adj. having a strong, sharp odor or tastesynonym: sharp, acrid, biting

(1) pungent criticism, (2) pungent taste

The **pungent** aroma of garlic filled the kitchen.

refinery

 a facility that is used to process, purify, and refine raw materials such as oil or metal into a more useful or valuable form

synonym: plant, factory, processing plant

(1) hydrogen **refinery**, (2) **refinery** operations

The oil **refinery** was shut down due to safety concerns after a major accident.

hydropower

 n. electricity generated from the energy of moving water, usually using turbines and dams in rivers or other bodies of water

synonym: hydroelectricity, waterpower, hydro

(1) hydropower plant, (2) hydropower energy

Many countries around the world have built dams to harness the power of **hydropower** for their energy needs.

electrify

v. to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something

synonym: wire, amaze, astonish

(1) **electrify** the audience, (2) **electrify** a manufacturing process

The product developed through years of research continues to **electrify** the market.

ordeal

a painful, difficult, or dangerous experience or trial; a severe test of endurance or patience

synonym: trial, hardship, torment

(1) **ordeal** by fire, (2) emotional **ordeal**

The car accident was a traumatic **ordeal** for everyone involved.

electrolysis

- a process or technique of chemical decomposition produced by passing an electric current through an ion-containing liquid or solution
- (1) **electrolysis** apparatus, (2) copper **electrolysis** process The **electrolysis** of water produces oxygen and hydrogen.

propeller

 a device with rotating blades or vanes used for propulsion or creating lift, typically used on boats or aircraft

synonym: prop, rotor, fan

(1) propeller design, (2) propeller aircraft

The boat's **propeller** stopped working in the middle of the lake.

plummet

v. to fall or drop suddenly and steeply; to decline rapidly or sharply

synonym: drop, plunge, fall

(1) **plummeting** sales, (2) **plummet** against other major currencies

The stock prices have **plummeted** in the last hour, causing concern for investors.

incentivize

to make someone want to do in a particular way by offering them a reward

synonym: encourage, motivate

(1) **incentivize** carpooling, (2) **incentivize** the right behavior Governments **incentivize** their citizens to buy eco-friendly products through subsidies.

spur

 a thing that encourages someone to do something; any sharply pointed projection; (verb) to incite or stimulate someone or something synonym: encouragement, motivation, stimulus

(1) **spur** of the moment, (2) **spur** a momentum of economic growth

The threat of losing his job was the **spur** he needed to work harder.

plunge

to dive quickly and steeply downward; to thrust or throw into something; (noun) a steep and rapid fall

synonym: dive, drop, thrust

(1) **plunge** into the water, (2) **plunge** a dagger through his heart

The company's profits **plunged** after the recall of their new product.

sprawl

- v. to sit, lie, or fall with one's arms and legs spread out synonym: drape, spread out
- (1) **sprawl** out luxuriously on the sofa, (2) **sprawl** for acres The lush vegetation **sprawls** across the wonderfully landscaped gardens.

onboard

v. to become or make part of a team, group, or system; to install, activate, or begin using a piece of equipment or software; (adjective) included or integrated into a particular system, machine, or device

synonym: embark, aboard, on-load

(1) **onboard** the new employees, (2) **onboard** computer The passengers were instructed to **onboard** the aircraft as quickly as possible so that the flight could depart on time.

dolphin

 a marine mammal that typically has a beaklike snout, a streamlined body, and flippers and that feeds on fish and squid

synonym: porpoise, cetacean, marine mammal

(1) **dolphin** show, (2) **dolphin-watching** tour
The large group of **dolphins** swam gracefully in the ocean, jumping out of the water now and then.

propulsion

 the act or process of propelling or driving something forward, often using a motor, engine, or other mechanical means

synonym: propelling, driving, actuation

(1) **propulsion** technology, (2) nuclear **propulsion**The spacecraft's **propulsion** system helped it travel through space.

rot

v. to decay, or cause something to decay, naturally and gradually

synonym: perish, decay, corrode

(1) begin to **rot**, (2) **rot** with age

Please refrigerate the meat, or it will rot.

hyperactive

 adj. excessively or abnormally active, restless, or easily excitable, particularly about children or animals with attention deficit hyperactivity disorder (ADHD)

synonym: hyperkinetic, overactive, restless

(1) **hyperactive** child, (2) **hyperactive** imagination The **hyperactive** dog was running around the house, knocking things over.

barber

 a person who cuts men's hair and shaves beards as a profession; a shop or establishment where such services are offered

synonym: hairdresser, stylist, shaver

(1) favorite barber, (2) barber pole

The **barber** shop was closed on Monday, much to the disappointment of many customers.

blase

adj. indifferent to or unimpressed by something that may be seen as exciting, interesting, or significant; jaded or worldly-wise

synonym: bored, indifferent, apathetic

(1) **blase** attitude, (2) **blase** response

The celebrity was **blase** about attending yet another red carpet event.

swirl

- v. to move in a circular or spiral pattern synonym: spin, whirl, turn
- swirl the wine, (2) swirl up dirt and dust
 The chef expertly swirled the sauce onto the plate.

eyesore

 something unpleasant, unattractive, or offensive to look at, often because it is neglected, run-down, or out of place

synonym: monstrosity, blot, blemish

(1) environmental **eyesore**, (2) **eyesore** landscape The construction site was an **eyesore** that disrupted the peacefulness of the area.

fetus

- an unborn or unhatched animal in the later stages of development showing the main recognizable features of the mature animal
- (1) development of the **fetus**, (2) an aborted **fetus**The female vagina is elastic enough to allow the passage of a **fetus**.

pivotal

- adj. relating to or acting as a pivot or central point; crucial or essential to the success or outcome of somethingsynonym: crucial, essential, important
- (1) **pivotal** moment, (2) **pivotal** role

 The CEO's decision was **pivotal** in the success of the company's expansion plans.

fling

- v. to throw or push something or someone with force or recklessness, especially because you are angry synonym: throw, dump, hurl
- (1) **fling** a stream of abuse, (2) **fling** a door open forcefully He was provoked to **fling** the draft on the floor.

equator

- an line of latitude that separates Earth's northern and southern hemispheres and has a radius of around 40,075 kilometers (24,901 miles)
- (1) south of the **equator**, (2) above the **equator**

Ecuador is on the **equator**.

overdrive

 a gear in a vehicle that allows the engine to operate at a higher speed than the vehicle's speed, resulting in greater fuel efficiency and smoother driving; (verb) to drive or work too hard

synonym: high gear, high speed, turbocharge

(1) atrial **overdrive** pacing, (2) go into **overdrive**The car's **overdrive** function allows it to shift into a higher gear for better fuel efficiency on the highway.

skyscraper

- n. a very tall building, typically one in a citysynonym: high-rise, tower
- (1) **skyscraper** apartment house, (2) steel-framed **skyscraper**

The 50-floor **skyscraper** loomed over the city, dwarfing the other buildings.

Session 2: Spelling

1. or___I by fire

2. shi____er industry

3. nuclear pro____on

4. bl__e attitude

5. ca om tea

6. bl e response

7. pro on technology

- a painful, difficult, or dangerous experience or trial; a severe test of endurance or patience
- a person or company that builds ships, typically working with steel and other durable materials to construct both commercial and military vessels

 n. the act or process of propelling or driving something forward, often using a motor, engine, or other mechanical means

 adj. indifferent to or unimpressed by something that may be seen as exciting, interesting, or significant; jaded or worldly-wise

n. a spice made from the seeds of several plants belonging to the ginger family, used in both sweet and savory dishes for its strong, warm, and slightly sweet flavor and aroma

adj. indifferent to or unimpressed by something that may be seen as exciting, interesting, or significant; jaded or worldly-wise

 n. the act or process of propelling or driving something forward, often using a motor, engine, or other mechanical means

ANSWERS: 1. ordeal, 2. shipbuilder, 3. propulsion, 4. blase, 5. cardamom, 6. blase, 7. propulsion

ANSWERS: 8. electrify, 9. hydropower, 10. ammonia, 11. pungent, 12. refinery, 13. sprawl, 14. pollute, 15. rev, 16. cardamom

flavor and aroma

17.	inle patient	adj.	not able to be cured, healed, or remedied; beyond recovery or redemption
18.	coce ideas	v.	to come together or merge into a single group, mass, or whole; to blend or combine elements or ideas into a unified whole
19.	inhale ama fumes	n.	a compound of nitrogen and hydrogen that forms a gas with a strong smell, used as cleaning substances, fertilizers and explosives
20.	poe the thread	ν.	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
21.	s_r in popularity	ν.	to fly or rise very high or to a great height, often with great grace or ease
22.	ple into the water	v.	to dive quickly and steeply downward; to thrust or throw into something; (noun a steep and rapid fall
23.	cor honor	v.	to have a meeting or discussion to come to a decision or agreement or exchange ideas; to bestow something
24.	c_g beer	ν.	to make a dull, steady, and repetitive sound, as if from an engine or machine; to drink, especially alcohol, quickly and in large quantities; (noun) the sound made by a vehicle, particularly a train of a boat, as it moves steadily and slowly
25.	ple a dagger through his heart	ν.	to dive quickly and steeply downward; to thrust or throw into something; (noun a steep and rapid fall

ANSWERS: 17. incurable, 18. coalesce, 19. ammonia, 20. pollute, 21. soar, 22. plunge, 23. confer, 24. chug, 25. plunge

ANSWERS: 26. seasick, 27. plummet, 28. propeller, 29. seasick, 30. dolphin, 31. propeller, 32. equator, 33. electrolysis, 34. incentivize

particular way by offering them a reward

ANSWERS: 35. hyperactive, 36. coalesce, 37. barber, 38. rev, 39. skyscraper, 40. industrious, 41. fume, 42. camomile

ANSWERS: 43. sprawl, 44. pivotal, 45. camomile, 46. overdrive, 47. electrify, 48. pivotal, 49. fling, 50. hydropower, 51. electrolysis

- 52. pu___t taste
- 53. environmental ey___e
- 54. development of the fe__s
- 55. an aborted fe__s
- 56. begin to r t
- 57. hyp____ve child
- 58. cri____ss my heart
- 59. e__t a gamma ray
- 60. s_w insults
- 61. go into ov____ve

- adj. having a strong, sharp odor or taste
- something unpleasant, unattractive, or offensive to look at, often because it is neglected, run-down, or out of place
- an unborn or unhatched animal in the later stages of development showing the main recognizable features of the mature animal
- an unborn or unhatched animal in the later stages of development showing the main recognizable features of the mature animal
- v. to decay, or cause something to decay, naturally and gradually
- adj. excessively or abnormally active,
 restless, or easily excitable, particularly
 about children or animals with attention
 deficit hyperactivity disorder (ADHD)
- v. to move or make lines that intersect or cross each other in a pattern resembling a series of X's
- v. to give off or send out something such as light, heat, sound, gas, etc.
- v. to eject forcefully and abundantly; to flow out rapidly and in large amounts
- a gear in a vehicle that allows the engine to operate at a higher speed than the vehicle's speed, resulting in greater fuel efficiency and smoother driving; (verb) to drive or work too hard

ANSWERS: 52. pungent, 53. eyesore, 54. fetus, 55. fetus, 56. rot, 57. hyperactive, 58. crisscross, 59. emit, 60. spew, 61. overdrive

ANSWERS: 62. incentivize, 63. emit, 64. industrious, 65. spur, 66. swirl, 67. onboard, 68. fume, 69. crisscross, 70. confer

a ship, aircraft, or other vehicle used for 71. bulk fr er n. transporting cargo or goods in bulk to fly or rise very high or to a great 72. s r to new heights ν. height, often with great grace or ease 73. r t with age to decay, or cause something to decay, ν. naturally and gradually 74. ey___e landscape something unpleasant, unattractive, or n. offensive to look at, often because it is neglected, run-down, or out of place to emit a strong, unpleasant odor; to 75. st k badly have a strong offensive smell; to be corrupt or unethical 76. in____le romantic adj. not able to be cured, healed, or remedied; beyond recovery or redemption 77. do n show a marine mammal that typically has a n. beaklike snout, a streamlined body, and flippers and that feeds on fish and squid a facility that is used to process, purify, 78. re____ry operations n. and refine raw materials such as oil or metal into a more useful or valuable form 79. st k up the place to emit a strong, unpleasant odor; to have a strong offensive smell; to be corrupt or unethical to eject forcefully and abundantly; to 80. s w carbon dioxide ν. flow out rapidly and in large amounts to fall or drop suddenly and steeply; to 81. pl___t against other major ν. decline rapidly or sharply

ANSWERS: 71. freighter, 72. soar, 73. rot, 74. eyesore, 75. stink, 76. incurable, 77. dolphin, 78. refinery, 79. stink, 80. spew, 81. plummet

currencies

or establishment where such services are offered

a person who cuts men's hair and

shaves beards as a profession; a shop

90. favorite ba r

ANSWERS: 82. ordeal, 83. spur, 84. shipbuilder, 85. equator, 86. chug, 87. swirl, 88. skyscraper, 89. freighter, 90. barber

- 91. on____d the new employees
- ν. to become or make part of a team, group, or system; to install, activate, or begin using a piece of equipment or software; (adjective) included or integrated into a particular system, machine, or device

92. fl_g a stream of abuse

v. to throw or push something or someone with force or recklessness, especially because you are angry

ANSWERS: 91. onboard, 92. fling

Session 3: Fill in the Blanks

1.	I love the flavor of in my chai tea.
n.	a spice made from the seeds of several plants belonging to the ginger family, used in both sweet and savory dishes for its strong, warm, and slightly sweet flavor and aroma
2.	The boat's stopped working in the middle of the lake.
n.	a device with rotating blades or vanes used for propulsion or creating lift, typically used on boats or aircraft
3.	The angry customer began to when their order was delayed.
v.	to emit gas, smoke, vapor, or a strong, unpleasant odor; to show anger, irritation, or annoyance in a visible way; (noun) gas or vapor that is emitted from a substance, usually as a result of heating or combustion
4.	The chef expertly the sauce onto the plate.
ν.	to move in a circular or spiral pattern
5.	tea is known for its calming effects on the body and mind.
n.	a plant with white, daisy-like flowers that is widely used to make tea and herbal remedies, known for its calming and soothing qualities
6.	The lush vegetation across the wonderfully landscaped gardens.
ν.	to sit, lie, or fall with one's arms and legs spread out
7.	The dog was running around the house, knocking things over.
adj	excessively or abnormally active, restless, or easily excitable, particularly about children or animals with attention deficit hyperactivity disorder (ADHD)
	SWERS: 1. cardamom, 2. propeller, 3. fume, 4. swirled, 5. Camomile, 6. sprawls, syperactive

15.	The oil	was shut down due to safety concerns after a major accident.
n.		hat is used to process, purify, and refine raw materials such as oil or a more useful or valuable form
16.	Thecustomers.	shop was closed on Monday, much to the disappointment of many
n.	•	who cuts men's hair and shaves beards as a profession; a shop or nent where such services are offered
17.	We should	do our best not to the environment.
<i>v</i> .		n area or substance, such as land, air, water, etc., dirty or harmful to gs by adding waste matter or harmful chemicals
18.	The compa	ny's profits after the recall of their new product.
<i>v</i> .	•	ickly and steeply downward; to thrust or throw into something; (noun) nd rapid fall
19.	•	ngers were instructed to the aircraft as quickly as possible so ht could depart on time.
<i>v</i> .	begin usir	e or make part of a team, group, or system; to install, activate, or ng a piece of equipment or software; (adjective) included or integrated ticular system, machine, or device
20.	The garbag	e in the alley began to after a few hot days.
<i>v</i> .	to emit a s corrupt or	strong, unpleasant odor; to have a strong offensive smell; to be unethical
21.	The	aroma of garlic filled the kitchen.
adj	having a s	strong, sharp odor or taste
	SWERS: 15 pungent	. refinery, 16. barber, 17. pollute, 18. plunged, 19. onboard, 20. stink,

incentivize, 45. soared

Vocab-Build	er Ref from "Maria Gallucci: The carbonless fuel that could change how we ship goods TED Talk" (46 words
	expertise in naval architecture made them the top choice he job.
	person or company that builds ships, typically working with steel and other rable materials to construct both commercial and military vessels
ANSWE	RS: 46. shipbuilder's