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Vocabulary Builder Reference from...

Wayne Ting: A carbon-free future starts with driving less | TED Talk

https://www.ted.com/talks/wayne_ting_a_carbon_free_future_starts_with_driving_less

All Words

IMPORTANT

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Session 1: Word List

carbon

n. a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals

(1) **carbon** dioxide, (2) **carbon** emission

Trees absorb **carbon** dioxide and give off oxygen.

emission

n. the act of production or sending out gas, heat, light, etc.
synonym: emanation, radiation, discharge

(1) global **emissions** of greenhouse gases, (2) the **emission** of light

There are five distinct **emissions** at five unique wavelengths.

statistics

n. the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data

(1) **statistics** for cancer, (2) official **statistics**

The **statistics** demonstrate that poverty and unemployment are genuine problems.

transport

n. a system for moving people or products from one location to another using automobiles, roads, and so on
synonym: shipment, transit, conveyance

(1) **transport** facilities, (2) access to public **transport**

Enhanced rail **transportation** is crucial for our business.

consume

v. to spend something, especially fuel, energy, or time, in a large amount

synonym: absorb, ingest, use up

(1) **consume** a large of alcohol, (2) **consume** electricity

A smaller car will **consume** less fuel.

climate

n. the weather in a particular location averaged over some long period

synonym: atmosphere, weather, environment

(1) a cold **climate**, (2) effects of **climate** change

Climate and weather have an impact on every part of our lifestyles.

pledge

v. to make a formal promise to give or do something

synonym: promise, assure, guarantee

(1) **pledge** my fidelity, (2) **pledge** military assistance

At this ceremony, We will **pledge** allegiance to the country's flag.

locate

v. to specify or determine the exact position of someone or something

synonym: discover, find, place

(1) **locate** a missing pet, (2) **locate** a tumor

The robot can accurately **locate** construction material.

scoot

v. to move or glide along quickly and smoothly on a surface, especially on a scooter or similar device

synonym: glide, slide, scurry

(1) **scoot** out of my room, (2) **scoot** over

I have to **scoot** over to the next desk because there's not enough room for me to sit comfortably.

equivalent

n. having the same value, quality, meaning, purpose, etc.

synonym: equal, counterpart, match

(1) **equivalent** amounts, (2) **equivalent** in meaning

The European Central Bank is Europe's **equivalent** of the

Federal Reserve.

dramatically

adv. in a very impressive manner

synonym : greatly, noticeably, suddenly

(1) he confessed **dramatically**, (2) the cabin pressure fell **dramatically**

Life expectancy has grown **dramatically** this century.

alternative

n. one of two or more available possibilities or choice

synonym : choice, option

(1) an **alternative** plan, (2) there is no other **alternative**

Doctors are gradually coming around to the idea of using **alternative** medicines.

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.

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.

core

n. the most essential or fundamental part of something

synonym : center, basis, heart

(1) the **core** of an apple, (2) **core** business activity

These gas nebulas are merely newborn galactic **cores**.

folk

n. people in general, especially those of a particular group or type

synonym : community, family, person

(1) **folk** art, (2) the **folk** songs of a particular district
Some seaweed was used as **folk** medicine in ancient times.

reuse

v. to use something again or more than once

synonym: reprocess, recycle, rehash

(1) **reuse** the materials, (2) **reuse** existing knowledge

The supermarket encourages shoppers to **reuse** plastic bags.

recycle

v. to sort and collect things to process them and produce valuable materials that can be used again

synonym: reclaim, reuse, reprocess

(1) **recycle** the cardboard boxes, (2) **recycle** milk packaging into new paper

We largely **recycle** the circuit board of cell phones because they contain a lot of valuable metals.

micro

n. extremely small in scale or scope; one millionth

(1) **micro** bubble, (2) **micro** force sensor

This approach employs both **micro** and macro analysis methods.

mobility

n. the ability to move or be moved freely or easily from one place, job, or social class to another

synonym: flexibility, maneuverability

(1) lack in **mobility**, (2) improve social **mobility**

I have limited **mobility** in my arms.

commerce

n. the activity of buying and selling things, especially on a large scale

synonym: trade, transaction, dealings

(1) interstate **commerce**, (2) the local chamber of **commerce**

This company has invested heavily in Internet **commerce**.

fleet

n. a group of military ships, aircraft, etc., operating together under the same ownership; (adjective) moving very fast

synonym : armada, flotilla, (adjective) speedy

(1) **fleet** of foot, (2) a **fleet** horse

We destroyed a **fleet** of 70 enemy ships.

enormous

adj. extremely large or great

synonym : huge, giant, gigantic

(1) **enormous** amount, (2) **enormous** potential

Shakespeare's output of poetry was **enormous**.

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.

upstream

adj. in the direction against a stream's current; (adverb) toward the source or beginning of a stream, river, or process

synonym : upriver, up-current

(1) swim **upstream**, (2) **upstream** direction

The company is investing heavily in **upstream** research and development.

ultimate

adj. furthest or highest in degree or order

synonym : highest, maximum, foremost

(1) the **ultimate** goal in life, (2) the **ultimate** luxury

Management must take **ultimate** responsibility for the accident.

redesign

v. to design something again, especially in a different or modified form; (noun) the process of designing something again

synonym : revamp, rework, remodel

(1) **redesign** project, (2) **redesign** of lifestyle

The company is planning to **redesign** its website.

swap

v. to give something and receive something in trade
synonym: exchange, switch, trade

(1) **swap** seats, (2) **swap** columns with rows

Don't **swap** horses while crossing a stream.

battery

n. a device that is placed inside a car, gadget, equipment, etc. and that provides electrical power to them

synonym: electric cell, array, batch

(1) a dry **battery**, (2) **battery** charging

The engine did not start because the **battery** was flat.

constantly

adv. all the time

synonym: continuously, always, frequently

(1) a **constantly** innovative enterprise, (2) a **constantly** varying mind

The mobile application industry is **constantly** changing.

landfill

n. a site for the disposal of waste materials

synonym: dump, trash-yard, waste-yard

(1) disposal in a **landfill**, (2) **landfill** sites

This country faces problems in finding enough suitable **landfill** sites.

sufficient

adj. adequate; enough for a particular purpose or requirement

synonym: acceptable, ample, satisfactory

(1) **sufficient** time, (2) self- **sufficient** economy

That candidate does not have **sufficient** means to win an election with certainty.

extend

v. to broaden in scope, range, or area

synonym: prolong, lengthen, advance

(1) **extend** the warranty, (2) **extend** a line

Her visit will **extend** from Monday to Friday.

cycle

n. an interval during which a recurring sequence of events occurs; a bicycle or motorcycle

synonym: revolution, rotation, bike

(1) the **cycle** of the seasons, (2) go to the workplace by **cycle**

The food chain causes a material **cycle**.

environment

n. the natural world such as air, water, and land in which humans, animals, and plants live

synonym: atmosphere, surroundings, climate

(1) **environment** affairs, (2) chaotic **environment**

Every human is responsible for taking care of the Earth's **environment**.

affordable

adj. not expensive and able to pay

synonym: cheap, reasonable, inexpensive

(1) **affordable** housing, (2) **affordable** solution

The automaker has been providing **affordable** car financing options since last year.

Session 2: Spelling

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|------------------------------------|---|
| 1. swim up _____am | <i>adj.</i> in the direction against a stream's current; (adverb) toward the source or beginning of a stream, river, or process |
| 2. interstate co _____ce | <i>n.</i> the activity of buying and selling things, especially on a large scale |
| 3. sc __t out of my room | <i>v.</i> to move or glide along quickly and smoothly on a surface, especially on a scooter or similar device |
| 4. s __p columns with rows | <i>v.</i> to give something and receive something in trade |
| 5. self-suf _____nt economy | <i>adj.</i> adequate; enough for a particular purpose or requirement |
| 6. re _____e the cardboard boxes | <i>v.</i> to sort and collect things to process them and produce valuable materials that can be used again |
| 7. a dry ba _____y | <i>n.</i> a device that is placed inside a car, gadget, equipment, etc. and that provides electrical power to them |
| 8. disposal in a la _____ll | <i>n.</i> a site for the disposal of waste materials |
| 9. the local chamber of co _____ce | <i>n.</i> the activity of buying and selling things, especially on a large scale |
| 10. access to public tr _____rt | <i>n.</i> a system for moving people or products from one location to another using automobiles, roads, and so on |
| 11. co _____e a large of alcohol | <i>v.</i> to spend something, especially fuel, energy, or time, in a large amount |

ANSWERS: 1. upstream, 2. commerce, 3. scoot, 4. swap, 5. sufficient, 6. recycle, 7. battery, 8. landfill, 9. commerce, 10. transport, 11. consume

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| 12. en____us amount | <i>adj.</i> extremely large or great |
| 13. re__e the materials | <i>v.</i> to use something again or more than once |
| 14. an alt_____ve plan | <i>n.</i> one of two or more available possibilities or choice |
| 15. a con_____ly innovative enterprise | <i>adv.</i> all the time |
| 16. a fl__t horse | <i>n.</i> a group of military ships, aircraft, etc., operating together under the same ownership; (adjective) moving very fast |
| 17. tr_____rt facilities | <i>n.</i> a system for moving people or products from one location to another using automobiles, roads, and so on |
| 18. equ_____nt amounts | <i>n.</i> having the same value, quality, meaning, purpose, etc. |
| 19. the cy__e of the seasons | <i>n.</i> an interval during which a recurring sequence of events occurs; a bicycle or motorcycle |
| 20. the ul_____te goal in life | <i>adj.</i> furthest or highest in degree or order |
| 21. improve social mo_____ty | <i>n.</i> the ability to move or be moved freely or easily from one place, job, or social class to another |
| 22. fl__t of foot | <i>n.</i> a group of military ships, aircraft, etc., operating together under the same ownership; (adjective) moving very fast |
| 23. lo___e a tumor | <i>v.</i> to specify or determine the exact position of someone or something |
| 24. aff_____le solution | <i>adj.</i> not expensive and able to pay |

ANSWERS: 12. enormous, 13. reuse, 14. alternative, 15. constantly, 16. fleet, 17. transport, 18. equivalent, 19. cycle, 20. ultimate, 21. mobility, 22. fleet, 23. locate, 24. affordable

25. en____us potential *adj.* extremely large or great
26. lo___e a missing pet *v.* to specify or determine the exact position of someone or something
27. the f__k songs of a particular district *n.* people in general, especially those of a particular group or type
28. ca___n emission *n.* a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals
29. global em_____ons of greenhouse gases *n.* the act of production or sending out gas, heat, light, etc.
30. chaotic env_____nt *n.* the natural world such as air, water, and land in which humans, animals, and plants live
31. man_____re a product *v.* to make goods in large numbers, usually in a factory using machines
32. the cabin pressure fell dra_____lly *adv.* in a very impressive manner
33. sta_____cs for cancer *n.* the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data
34. po_____e the air *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
35. aff_____le housing *adj.* not expensive and able to pay
36. f__k art *n.* people in general, especially those of a particular group or type

ANSWERS: 25. enormous, 26. locate, 27. folk, 28. carbon, 29. emission, 30. environment, 31. manufacture, 32. dramatically, 33. statistics, 34. pollute, 35. affordable, 36. folk

37. pl___e my fidelity *v.* to make a formal promise to give or do something
38. ex___d the warranty *v.* to broaden in scope, range, or area
39. a cold cl_____e *n.* the weather in a particular location averaged over some long period
40. re_____e milk packaging into new paper *v.* to sort and collect things to process them and produce valuable materials that can be used again
41. he confessed dra_____lly *adv.* in a very impressive manner
42. the ul_____te luxury *adj.* furthest or highest in degree or order
43. equ_____nt in meaning *n.* having the same value, quality, meaning, purpose, etc.
44. po_____e the thread *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
45. re_____gn project *v.* to design something again, especially in a different or modified form; (noun) the process of designing something again
46. official sta_____cs *n.* the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data
47. ca_____n dioxide *n.* a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals
48. env_____nt affairs *n.* the natural world such as air, water, and land in which humans, animals, and plants live

ANSWERS: 37. pledge, 38. extend, 39. climate, 40. recycle, 41. dramatically, 42. ultimate, 43. equivalent, 44. pollute, 45. redesign, 46. statistics, 47. carbon, 48. environment

49. go to the workplace by cy__e *n.* an interval during which a recurring sequence of events occurs; a bicycle or motorcycle
50. lack in mo____ty *n.* the ability to move or be moved freely or easily from one place, job, or social class to another
51. pl___e military assistance *v.* to make a formal promise to give or do something
52. there is no other alt____ve *n.* one of two or more available possibilities or choice
53. re__e existing knowledge *v.* to use something again or more than once
54. mi__o force sensor *n.* extremely small in scale or scope; one millionth
55. ba____y charging *n.* a device that is placed inside a car, gadget, equipment, etc. and that provides electrical power to them
56. e__t air pollution *v.* to give off or send out something such as light, heat, sound, gas, etc.
57. up____am direction *adj.* in the direction against a stream's current; (adverb) toward the source or beginning of a stream, river, or process
58. la____ll sites *n.* a site for the disposal of waste materials
59. co____e electricity *v.* to spend something, especially fuel, energy, or time, in a large amount
60. ex____d a line *v.* to broaden in scope, range, or area
61. e__t a gamma ray *v.* to give off or send out something such as light, heat, sound, gas, etc.

ANSWERS: 49. cycle, 50. mobility, 51. pledge, 52. alternative, 53. reuse, 54. micro, 55. battery, 56. emit, 57. upstream, 58. landfill, 59. consume, 60. extend, 61. emit

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| 62. effects of cl____e change | <i>n.</i> the weather in a particular location averaged over some long period |
| 63. c__e business activity | <i>n.</i> the most essential or fundamental part of something |
| 64. the em____on of light | <i>n.</i> the act of production or sending out gas, heat, light, etc. |
| 65. man____re an enzyme | <i>v.</i> to make goods in large numbers, usually in a factory using machines |
| 66. re____gn of lifestyle | <i>v.</i> to design something again, especially in a different or modified form; (noun) the process of designing something again |
| 67. sc__t over | <i>v.</i> to move or glide along quickly and smoothly on a surface, especially on a scooter or similar device |
| 68. a con____ly varying mind | <i>adv.</i> all the time |
| 69. mi__o bubble | <i>n.</i> extremely small in scale or scope; one millionth |
| 70. suf____nt time | <i>adj.</i> adequate; enough for a particular purpose or requirement |
| 71. s__p seats | <i>v.</i> to give something and receive something in trade |
| 72. the c__e of an apple | <i>n.</i> the most essential or fundamental part of something |

ANSWERS: 62. climate, 63. core, 64. emission, 65. manufacture, 66. redesign, 67. scoot, 68. constantly, 69. micro, 70. sufficient, 71. swap, 72. core

Session 3: Fill in the Blanks

1. This company has invested heavily in Internet _____.
n. the activity of buying and selling things, especially on a large scale
2. Management must take _____ responsibility for the accident.
adj. furthest or highest in degree or order
3. This approach employs both _____ and macro analysis methods.
n. extremely small in scale or scope; one millionth
4. This country faces problems in finding enough suitable _____ sites.
n. a site for the disposal of waste materials
5. Her visit will _____ from Monday to Friday.
v. to broaden in scope, range, or area
6. I have limited _____ in my arms.
n. the ability to move or be moved freely or easily from one place, job, or social class to another
7. _____ and weather have an impact on every part of our lifestyles.
n. the weather in a particular location averaged over some long period
8. The majority of synthetic vitamins are _____ from oil.
v. to make goods in large numbers, usually in a factory using machines
9. The mobile application industry is _____ changing.
adv. all the time

ANSWERS: 1. commerce, 2. ultimate, 3. micro, 4. landfill, 5. extend, 6. mobility, 7. Climate, 8. manufactured, 9. constantly

10. The _____ demonstrate that poverty and unemployment are genuine problems.
- n.* the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data
11. A smaller car will _____ less fuel.
- v.* to spend something, especially fuel, energy, or time, in a large amount
12. We destroyed a _____ of 70 enemy ships.
- n.* a group of military ships, aircraft, etc., operating together under the same ownership; (adjective) moving very fast
13. That candidate does not have _____ means to win an election with certainty.
- adj.* adequate; enough for a particular purpose or requirement
14. Enhanced rail _____ is crucial for our business.
- n.* a system for moving people or products from one location to another using automobiles, roads, and so on
15. Every human is responsible for taking care of the Earth's _____.
- n.* the natural world such as air, water, and land in which humans, animals, and plants live
16. The food chain causes a material _____.
- n.* an interval during which a recurring sequence of events occurs; a bicycle or motorcycle
17. The European Central Bank is Europe's _____ of the Federal Reserve.
- n.* having the same value, quality, meaning, purpose, etc.

ANSWERS: 10. statistics, 11. consume, 12. fleet, 13. sufficient, 14. transportation, 15. environment, 16. cycle, 17. equivalent

18. The company is planning to _____ its website.

- v.* to design something again, especially in a different or modified form; (noun) the process of designing something again

19. The company is investing heavily in _____ research and development.

- adj.* in the direction against a stream's current; (adverb) toward the source or beginning of a stream, river, or process

20. Shakespeare's output of poetry was _____.

- adj.* extremely large or great

21. During the unloading, the container box _____ a clicking sound.

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

22. The automaker has been providing _____ car financing options since last year.

- adj.* not expensive and able to pay

23. Trees absorb _____ dioxide and give off oxygen.

- n.* a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals

24. Some seaweed was used as _____ medicine in ancient times.

- n.* people in general, especially those of a particular group or type

25. Doctors are gradually coming around to the idea of using _____ medicines.

- n.* one of two or more available possibilities or choice

ANSWERS: 18. redesign, 19. upstream, 20. enormous, 21. emits, 22. affordable, 23. carbon, 24. folk, 25. alternative

26. I have to _____ over to the next desk because there's not enough room for me to sit comfortably.
- v. to move or glide along quickly and smoothly on a surface, especially on a scooter or similar device
27. The robot can accurately _____ construction material.
- v. to specify or determine the exact position of someone or something
28. There are five distinct _____ at five unique wavelengths.
- n. the act of production or sending out gas, heat, light, etc.
29. The engine did not start because the _____ was flat.
- n. a device that is placed inside a car, gadget, equipment, etc. and that provides electrical power to them
30. The supermarket encourages shoppers to _____ plastic bags.
- v. to use something again or more than once
31. We largely _____ the circuit board of cell phones because they contain a lot of valuable metals.
- v. to sort and collect things to process them and produce valuable materials that can be used again
32. These gas nebulas are merely newborn galactic _____.
- n. the most essential or fundamental part of something
33. At this ceremony, We will _____ allegiance to the country's flag.
- v. to make a formal promise to give or do something

ANSWERS: 26. scoot, 27. locate, 28. emissions, 29. battery, 30. reuse, 31. recycle, 32. cores, 33. pledge

34. Don't _____ horses while crossing a stream.

v. to give something and receive something in trade

35. Life expectancy has grown _____ this century.

adv. in a very impressive manner

36. We should do our best not to _____ the environment.

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

ANSWERS: 34. swap, 35. dramatically, 36. pollute