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Vocabulary Builder Reference from...

Vijay Kumar: The future of flying robots | TED Talk https://www.ted.com/talks/vijay_kumar_the_future_of _flying_robots



Advanced Words Only

IMPORTANT

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Session 1: Word List

drone

 a low continuous humming noise; someone who takes more time than necessary; a pilot-less aerial vehicle that is operated by remote control

synonym: hum, whirr, idler

(1) **drone** flight, (2) the speaker's **drone**

He heard a **drone** of sirens roar from the neighboring town.

determinant

 a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result

synonym: cause, factor, element

(1) environmental **determinant**, (2) a **determinant** of crop yields

One **determinant** of success is having a positive attitude and a strong work ethic.

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.

triangulation

n. the process of determining the location or position of something, such as an object, place, or point, by measuring the angles or distances between multiple reference points or landmarks

synonym: measurement, surveying, trilateration

(1) **triangulation** method, (2) political **triangulation**The archaeologists used GPS **triangulation** to accurately map the ancient ruins.

recognizable

adj. easy to become aware of or identify *synonym*: noticeable, perceptible, definite

(1) to a **recognizable** degree, (2) **recognizable** landmark His car was easily **recognizable** in the parking lot.

centimeter

- a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
- (1) **centimeter** measurement, (2) thirty **centimeters** tall The room was only one **centimeter** wider than the piano, making it a tight fit.

infer

v. to form an opinion or conclude that something is true based on existing facts

synonym: guess, deduce, assume

(1) **infer** quality from price, (2) **infer** the possibility Animal desire and preference are always **inferred** from their behavior.

smartphone

- a mobile phone that functions as a computer and connects to the Internet
- (1) **smartphone** app developer, (2) **smartphone** addict Internet traffic volumes have increased significantly with the advent of **smartphones**.

app

 n. (abbreviation for application) software designed to run on smartphones and other mobile devices or inside a web browser on a PC

synonym: application, software

(1) killer app, (2) cannot log in to the app

The discovery of a critical bug caused the company to delay the **app's** release.

unstructured

adj. not having a clear organization or arrangementsynonym: unorganized, unarranged, formless

(1) unstructured text, (2) unstructured information

The **unstructured** data took a lot of work to analyze and interpret.

claw

a curved, pointed appendage found on the foot or leg of an animal, used for gripping or grasping; a human hand with long, narrow fingers that are curved like a claw; a machine or tool with a claw-like opening used for gripping or lifting objects

synonym: paw, talon, nail

(1) claw marks, (2) claw hammer

The bear used its **claw** to catch a fish in the river.

maneuver

 a motion or combination of moves that requires skill and care; a clever strategy, activity, or movement intended to give someone an advantage

synonym: gimmick, trick, action

(1) political **maneuvers**, (2) made a great **maneuver** In this class, we learn the basic **maneuver** of the plane.

honeybee

 a type of bee that is known for producing honey and pollinating flowers

synonym: apis mellifera

(1) honeybee colony, (2) aggressive honeybee

The **honeybee** hive is organized into a caste system, with a queen, drones, and workers.

inertia

 the quality or state of being inactive, sluggish, or slow to move or act

synonym: sluggishness, lethargy, idleness

(1) inertia resistance, (2) Newton's law of inertia

The object's **inertia** kept it moving in a straight line until acted upon by an outside force.

mimic

v. to imitate someone's speech, movement, or behavior, especially to make others laugh

synonym: mirror, imitate, ape

(1) **mimic** a human voice, (2) **mimic** numerous instruments He is very popular at school because he can **mimic** all the teachers' accents.

midair

- n. some point in the air; above ground level
- (1) a **midair** collision, (2) thrown out into **midair** She flawlessly performed a **midair** somersault.

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.

entangle

 to become twisted or knotted together, especially in a way that makes it difficult to separate them; to involve in something complicated or difficult to escape

synonym: ensnare, entrap, involve

(1) **entangle** in wires, (2) emotionally **entangle**The vines of the plant **entangled** themselves around the trellis.

histogram

 a graphical representation of data that shows the distribution of values in a set or group typically displayed as a series of bars of varying heights or widths

synonym: frequency distribution

histogram distribution, (2) histogram chart
 The data was organized into a histogram to show the

frequency of occurrence of each value.

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.

interplay

n. the way in which two or more things interact or influence each other

synonym: interaction, give-and-take, interconnection

(1) **interplay** among neurons, (2) complex **interplay**

The **interplay** of light and shadow creates a dramatic effect in the painting.

hijack

v. to seize control of an airplane or other vehicle during an operation, especially with violence

synonym: commandeer, seize, pirate

(1) **hijack** a helicopter, (2) **hijack** a phone number He made a desperate effort to **hijack** an airliner.

anonymity

n. the condition of being anonymous or unidentified; the state of not revealing one's name, identity, or other personal information

synonym: obscurity, secrecy, namelessness

(1) comment with **anonymity**, (2) protect **anonymity**The use of pseudonyms allows individuals to maintain their **anonymity** online.

agnostic

 a person who believes that it is impossible to know whether there is a god

synonym: skeptic, doubter, unbeliever

(1) **agnostic** world-view, (2) **agnostic** position Her scientific background led her to be **agnostic** about the existence of a higher power.

ellipse

n. a closed curve with a shape resembling a stretched circle; in geometry, a figure formed by the intersection of a cone with a plane, where the plane cuts through both halves of the cone

synonym: oval, oblong, curve

(1) Kepler's **ellipse**, (2) planetary **ellipse**

He used the **ellipse** equation to calculate the dimensions of the oval-shaped garden.

malnourished

adj. not getting enough of the right type of food to stay healthy and strong

synonym: undernourished, underfed

(1) premature **malnourished** infant, (2) **malnourished** population

Malnourished children are at risk of developmental delays and chronic health problems.

cultivate

- v. to prepare and foster land for growing crops or plants synonym: boost, foster, nurture
- (1) **cultivate** a field, (2) **cultivate** relationships University is a great place to **cultivate** our minds and expertise.

improvisation

- n. the act of making something up on the spot or creating or performing something without preparation
- synonym: spontaneity, ad-lib, extemporization
- (1) **improvisation** on stage, (2) jazz **improvisation** He created a beautiful piece of music using only **improvisation**.

orchard

n. a piece of land that is planted with fruit trees, such as apples, pears, or cherries

synonym: grove, plantation, fruit garden

(1) local apple orchard, (2) orchard tree

The farmer owns an **orchard** where he grows apples, pears, and plums.

medicinal

adj. of or relating to the treatment or cure of disease synonym: curative, therapeutic, healing

medicinal chemistry, (2) traditional medicinal
 The medicinal properties of this herb have been known to

help with various ailments.

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.

photosynthesis

- n. the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.
- (1) oxygenic **photosynthesis**, (2) process of **photosynthesis**

In **photosynthesis**, plants use carbon dioxide to feed themselves.

discernible

adj. able to be perceived or recognized; clear or distinguishable

synonym: apparent, noticeable, distinguishable

(1) **discernible** pattern, (2) lack of **discernible** progress There was a **discernible** change in the atmosphere when the boss walked into the room.

chlorosis

 a condition in plants characterized by the yellowing or whitening of leaf tissue caused by the insufficient production or impaired function of chlorophyll

synonym: yellowing, discoloration, paleness

(1) chlorosis diagnosis, (2) leaf chlorosis

The botanist suggested that the **chlorosis** in the elm tree

might result from overwatering.

sect

 a group of people who follow a particular religious or philosophical belief system, especially one that is regarded as outside the norm or mainstream

synonym: group, faction, cult

(1) sect beliefs, (2) secret sect

The minority **sect** believed in a set of unconventional religious practices.

applaud

v. to express approval of someone or something by clapping the hands

synonym: clap, celebrate, praise

(1) **applaud** his courage, (2) **applaud** the orchestra I enthusiastically **applaud** my rival's achievement.

Session 2: Spelling

1. hi___k a helicopter

2. made a great ma____er

3. in____ay among neurons

4. co____te to the size

5. local apple or____d

6. complex in____ay

7. ag___ic world-view

8. to a rec ble degree

9. me al chemistry

10. Kepler's el e

v. to seize control of an airplane or other vehicle during an operation, especially with violence

 a motion or combination of moves that requires skill and care; a clever strategy, activity, or movement intended to give someone an advantage

n. the way in which two or more things interact or influence each other

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

n. a piece of land that is planted with fruit trees, such as apples, pears, or cherries

n. the way in which two or more things interact or influence each other

 a person who believes that it is impossible to know whether there is a god

adj. easy to become aware of or identify

adj. of or relating to the treatment or cure of disease

n. a closed curve with a shape resembling a stretched circle; in geometry, a figure formed by the intersection of a cone with a plane, where the plane cuts through both halves of the cone

ANSWERS: 1. hijack, 2. maneuver, 3. interplay, 4. correlate, 5. orchard, 6. interplay, 7. agnostic, 8. recognizable, 9. medicinal, 10. ellipse

 11. a mir collision n. some point in the air; above grolevel 12. cannot log in to the a_p n. (abbreviation for application) so designed to run on smartphones other mobile devices or inside a browser on a PC 13. leaf chis n. a condition in plants characterize the yellowing or whitening of lead caused by the insufficient production impaired function of chlorophyll 14. hik a phone number v. to seize control of an airplane of vehicle during an operation, especially one particular religious or philosophic belief system, especially one the regarded as outside the norm of mainstream 16. killer a_p n. (abbreviation for application) so 	ftware s and web ed by of tissue
designed to run on smartphones other mobile devices or inside a browser on a PC 13. leaf chis n. a condition in plants characteriz the yellowing or whitening of lead caused by the insufficient production impaired function of chlorophyll 14. hik a phone number v. to seize control of an airplane of vehicle during an operation, especially one that regarded as outside the norm of mainstream	s and web ed by of tissue
the yellowing or whitening of lead caused by the insufficient production of chlorophyll. 14. hik a phone number v. to seize control of an airplane of vehicle during an operation, especially one that regarded as outside the norm of mainstream.	of tissue
vehicle during an operation, esp with violence 15. s_t beliefs n. a group of people who follow a particular religious or philosophic belief system, especially one the regarded as outside the norm of mainstream	
particular religious or philosophi belief system, especially one the regarded as outside the norm o mainstream	
16 killer a n (abbreviation for application) so	at is
designed to run on smartphones other mobile devices or inside a browser on a PC	s and
17. Newton's law of ina n. the quality or state of being inaction sluggish, or slow to move or act	
18. malhed population adj. not getting enough of the right to food to stay healthy and strong	/pe of
19. triion method n. the process of determining the last or position of something, such a object, place, or point, by meast angles or distances between method or position of something, such a object, place, or point, by meast angles or distances between method or position of something, such a object, place, or point, by meast angles or distances between method or position of something, such a object, place, or point, by meast angles or distances between method or position of something, such a object, place, or point, by meast angles or distances between method or position of something and object, place, or point, by meast angles or distances between method or position of something and object, place, or point, by meast angles or distances between method or position of something and object, place, or point, by meast angles or distances between method or position of something and object.	s an uring the

ANSWERS: 11. midair, 12. app, 13. chlorosis, 14. hijack, 15. sect, 16. app, 17. inertia, 18. malnourished, 19. triangulation

inr the possibility	v.	to form an opinion or conclude that something is true based on existing facts
emotionally enle	v.	to become twisted or knotted together, especially in a way that makes it difficult to separate them; to involve in something complicated or difficult to escape
thirty ceners tall	n.	a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
political triion	n.	the process of determining the location or position of something, such as an object, place, or point, by measuring the angles or distances between multiple reference points or landmarks
secret st	n.	a group of people who follow a particular religious or philosophical belief system, especially one that is regarded as outside the norm or mainstream
the speaker's dre	n.	a low continuous humming noise; someone who takes more time than necessary; a pilot-less aerial vehicle that is operated by remote control
prer design	n.	a device with rotating blades or vanes used for propulsion or creating lift, typically used on boats or aircraft
comment with anty	n.	the condition of being anonymous or unidentified; the state of not revealing one's name, identity, or other personal information
	emotionally enle thirty ceners tall political triion secret st the speaker's dre prer design	emotionally enle v. thirty ceners tall n. political triion n. secret st n. the speaker's dre n. prer design n.

ANSWERS: 20. infer, 21. entangle, 22. centimeter, 23. triangulation, 24. sect, 25. drone, 26. propeller, 27. anonymity

28.	oxygenic phosis	n.	the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.
29.	smane addict	n.	a mobile phone that functions as a computer and connects to the Internet
30.	hiam distribution	n.	a graphical representation of data that shows the distribution of values in a set or group typically displayed as a series of bars of varying heights or widths
31.	hoee colony	n.	a type of bee that is known for producing honey and pollinating flowers
32.	premature malhed	infant <i>adj</i> .	not getting enough of the right type of food to stay healthy and strong
33.	dre flight	n.	a low continuous humming noise; someone who takes more time than necessary; a pilot-less aerial vehicle that is operated by remote control
34.	inr quality from price	ν.	to form an opinion or conclude that something is true based on existing facts
35.	enle in wires	v.	to become twisted or knotted together, especially in a way that makes it difficult to separate them; to involve in something complicated or difficult to escape
36.	cote closely with the	quality v.	to have a connection or relationship in which one thing affects or depends on another

ANSWERS: 28. photosynthesis, 29. smartphone, 30. histogram, 31. honeybee, 32. malnourished, 33. drone, 34. infer, 35. entangle, 36. correlate

37.	unsred information	adj.	not having a clear organization or arrangement
38.	unsred text	adj.	not having a clear organization or arrangement
39.	thrown out into mir	n.	some point in the air; above ground level
40.	mic numerous instruments	<i>v</i> .	to imitate someone's speech, movement, or behavior, especially to make others laugh
41.	jazz impion	n.	the act of making something up on the spot or creating or performing something without preparation
42.	smane app developer	n.	a mobile phone that functions as a computer and connects to the Internet
43.	ord tree	n.	a piece of land that is planted with fruit trees, such as apples, pears, or cherries
44.	agic position	n.	a person who believes that it is impossible to know whether there is a god
45.	apd his courage	v.	to express approval of someone or something by clapping the hands
46.	impion on stage	n.	the act of making something up on the spot or creating or performing something without preparation
47.	prer aircraft	n.	a device with rotating blades or vanes used for propulsion or creating lift, typically used on boats or aircraft
48.	planetary ele	n.	a closed curve with a shape resembling a stretched circle; in geometry, a figure formed by the intersection of a cone with a plane, where the plane cuts through both halves of the cone

ANSWERS: 37. unstructured, 38. unstructured, 39. midair, 40. mimic, 41. improvisation, 42. smartphone, 43. orchard, 44. agnostic, 45. applaud, 46. improvisation, 47. propeller, 48. ellipse

49.	hiam chart	n.	a graphical representation of data that shows the distribution of values in a set or group typically displayed as a series of bars of varying heights or widths
50.	mic a human voice	<i>v</i> .	to imitate someone's speech, movement, or behavior, especially to make others laugh
51.	a swm of mosquitoes	n.	a group of many things, such as insects, fishes, etc., in the air or water or on the ground
52.	recble landmark	adj.	easy to become aware of or identify
53.	cute relationships	<i>v</i> .	to prepare and foster land for growing crops or plants
54.	ina resistance	n.	the quality or state of being inactive, sluggish, or slow to move or act
55.	chis diagnosis	n.	a condition in plants characterized by the yellowing or whitening of leaf tissue caused by the insufficient production or impaired function of chlorophyll
56.	disle pattern	adj.	able to be perceived or recognized; clear or distinguishable
57.	locust swm	n.	a group of many things, such as insects, fishes, etc., in the air or water or on the ground
58.	ond 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

ANSWERS: 49. histogram, 50. mimic, 51. swarm, 52. recognizable, 53. cultivate, 54. inertia, 55. chlorosis, 56. discernible, 57. swarm, 58. onboard

59.	cener measurement	n.	a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
60.	lack of disle progress	adj.	able to be perceived or recognized; clear or distinguishable
61.	environmental detnt	n.	a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
62.	process of phosis	n.	the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.
63.	cw marks	n.	a curved, pointed appendage found on the foot or leg of an animal, used for gripping or grasping; a human hand with long, narrow fingers that are curved like a claw; a machine or tool with a claw-like opening used for gripping or lifting objects
64.	traditional meal	adj.	of or relating to the treatment or cure of disease
65.	protect anty	n.	the condition of being anonymous or unidentified; the state of not revealing one's name, identity, or other personal information
66.	apd the orchestra	ν.	to express approval of someone or something by clapping the hands
67.	ond computer	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

ANSWERS: 59. centimeter, 60. discernible, 61. determinant, 62. photosynthesis, 63. claw, 64. medicinal, 65. anonymity, 66. applaud, 67. onboard

68. political maers	n.	a motion or combination of moves that requires skill and care; a clever strategy, activity, or movement intended to give someone an advantage
69. c_w hammer	n.	a curved, pointed appendage found on the foot or leg of an animal, used for gripping or grasping; a human hand with long, narrow fingers that are curved like a claw; a machine or tool with a claw-like opening used for gripping or lifting objects
70. cute a field	ν.	to prepare and foster land for growing crops or plants
71. a detnt of crop yields	n.	a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
72. aggressive hoee	n.	a type of bee that is known for producing honey and pollinating flowers

ANSWERS: 68. maneuver, 69. claw, 70. cultivate, 71. determinant, 72. honeybee

Session 3: Fill in the Blanks

1.	He used the equation to calculate the dimensions of the oval-shaped garden.
n.	a closed curve with a shape resembling a stretched circle; in geometry, a figure formed by the intersection of a cone with a plane, where the plane cuts through both halves of the cone
2.	The data took a lot of work to analyze and interpret.
adj	not having a clear organization or arrangement
3.	The passengers were instructed to the aircraft as quickly as possible so that the flight could depart on time.
<i>v</i> .	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
4.	The data was organized into a to show the frequency of occurrence of each value.
n.	a graphical representation of data that shows the distribution of values in a set or group typically displayed as a series of bars of varying heights or widths
5.	University is a great place to our minds and expertise.
<i>v</i> .	to prepare and foster land for growing crops or plants
6.	children are at risk of developmental delays and chronic health problems.
adj	not getting enough of the right type of food to stay healthy and strong
7. v.	He is very popular at school because he can all the teachers' accents. to imitate someone's speech, movement, or behavior, especially to make others laugh
	SWERS: 1. ellipse, 2. unstructured, 3. onboard, 4. histogram, 5. cultivate, 6. Inourished, 7. mimic

3.	A of angry bees attacked because we had approached the hive.
n.	a group of many things, such as insects, fishes, etc., in the air or water or on the ground
9.	Her scientific background led her to be about the existence of a higher power.
n.	a person who believes that it is impossible to know whether there is a god
10.	In plants use carbon dioxide to feed themselves.
n.	the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.
11.	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
12.	The botanist suggested that the in the elm tree might result from overwatering.
n.	a condition in plants characterized by the yellowing or whitening of leaf tissue caused by the insufficient production or impaired function of chlorophyll
13.	The object's kept it moving in a straight line until acted upon by an outside force.
n.	the quality or state of being inactive, sluggish, or slow to move or act
14.	He heard a of sirens roar from the neighboring town.
n.	a low continuous humming noise; someone who takes more time than necessary; a pilot-less aerial vehicle that is operated by remote control
	SWERS: 8. swarm, 9. agnostic, 10. photosynthesis, 11. propeller, 12. chlorosis, inertia, 14. drone

15.	The hive is organized into a caste system, with a queen, drones, and workers.
n.	a type of bee that is known for producing honey and pollinating flowers
16.	There was a change in the atmosphere when the boss walked into the room.
adj	able to be perceived or recognized; clear or distinguishable
17.	I enthusiastically my rival's achievement.
v.	to express approval of someone or something by clapping the hands
18.	He created a beautiful piece of music using only
n.	the act of making something up on the spot or creating or performing something without preparation
19.	Animal desire and preference are always from their behavior.
<i>v</i> .	to form an opinion or conclude that something is true based on existing facts
20.	The room was only one wider than the piano, making it a tight fit.
n.	a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
21.	The archaeologists used GPS to accurately map the ancient ruins.
n.	the process of determining the location or position of something, such as an object, place, or point, by measuring the angles or distances between multiple reference points or landmarks
22.	One of success is having a positive attitude and a strong work ethic.
n.	a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
	SWERS: 15. honeybee, 16. discernible, 17. applaud, 18. improvisation, 19. erred, 20. centimeter, 21. triangulation, 22. determinant

23.	She flawlessly performed a somersault.
n.	some point in the air; above ground level
24.	The properties of this herb have been known to help with various ailments.
adj	of or relating to the treatment or cure of disease
25.	Internet traffic volumes have increased significantly with the advent of
n.	a mobile phone that functions as a computer and connects to the Internet
26.	His car was easily in the parking lot.
adj	easy to become aware of or identify
27.	He made a desperate effort to an airliner.
v.	to seize control of an airplane or other vehicle during an operation, especially with violence
28.	The discovery of a critical bug caused the company to delay the release.
n.	(abbreviation for application) software designed to run on smartphones and other mobile devices or inside a web browser on a PC
29.	The farmer owns an where he grows apples, pears, and plums.
n.	a piece of land that is planted with fruit trees, such as apples, pears, or cherries
30.	We may frequently age with the frequency of disease.
<i>v</i> .	to have a connection or relationship in which one thing affects or depends on another
	SWERS: 23. midair, 24. medicinal, 25. smartphones, 26. recognizable, 27. hijack app's, 29. orchard, 30. correlate

ANSWERS: 31. maneuver, 32. entangled, 33. sect, 34. claw, 35. anonymity, 36. interplay