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Vocabulary Builder Reference from...

Miho Janvier: Lessons from a solar storm chaser |

TED Talk

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

_a_solar_storm_chaser



All Words

IMPORTANT

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Session 1: Word List

weird

adj. extraordinary, unexpected, or difficult to explain

synonym: bizarre, creepy, peculiar

(1) a weird dress, (2) the state of being weird

My computer has been acting weird recently.

zombie

 a dead body that has been brought back to life by a supernatural force; someone who acts or responds in a mechanical or apathetic way

synonym: living dead, ghost, machine

(1) **zombie** bank, (2) **zombie** movie

If you don't get a good night's sleep, you will become a **zombie** at work.

apocalyptic

adj. describing severe damage and destruction in past or future events, or the end of the world

synonym: fateful, prophetic, ominous

(1) apocalyptic event, (2) have apocalyptic overtones

The apocalyptic landscape of burnt-out villages and

bombed-out ruins spread out before them.

province

 the territory occupied by one of the constituent administrative districts of a nation

synonym: area, section, region

(1) Bengal province, (2) home province

A network of railways has developed over the **province**.

grid

 a pattern of regularly spaced horizontal and vertical lines; a system of high tension cables by which electrical power is distributed throughout a region

synonym: gridiron, battery grid, power system

(1) a grid design, (2) a wire grid

Grid pattern roads often appear in urban areas.

culprit

- n. someone who is responsible for a crime or wrongdoingsynonym: criminal, felon, fugitive
- (1) the **culprit** of global warming, (2) the arrest of the **culprit** They finally found the **culprit** of the bug after a long time.

solar

adj. of, from, or relating to the sun

(1) the solar system, (2) a solar eclipse

Solar panels have greatly improved not only in performance but also in durability.

giant

adj. enormous; much bigger or more important than similar items usually are

synonym: big, gigantic, huge

(1) giant trees, (2) giant tech company

The **giant** jets gradually dominate the world's airlines.

particle

n. a small piece of something; a word or piece of a term with grammatical function but little or no significance

synonym: atom, grain, bit

(1) charged particle, (2) particle energy

We can calculate the position of the particles statistically.

constant

- adj. happening repeatedly or all the timesynonym: ceaseless, stable, unchanging
- (1) a **constant** wind, (2) a **constant** temperature **Constant** dropping wears away the stone.

physicist

- a scientist who specializes in the field of physics
- (1) talented **physicist**, (2) theoretical **physicist**Einstein was an outstanding and famous **physicist** of the 20th century.

tremendous

adj. very great in degree or extent or amount or impact; extremely good

synonym: enormous, giant, immense

(1) **tremendous** amount, (2) **tremendous** popularity We had a **tremendous** time yesterday.

chase

v. to pursue something or someone to catch or capture them; to go after something vigorously or with determination; (noun) a pursuit or a hunt; a narrow groove or channel cut into a surface, often used for decorative purposes

synonym: pursue, hunt, track

- (1) **chase** a dream, (2) wild goose **chase**The police officer **chased** the suspect through the crowded streets until they finally caught him.
- v. to try or plan to get or achieve something
 synonym: aspire, direct, target
 - (1) **aim** at a specific target, (2) **aim** to be a nurse We **aim** for an overseas expansion.

mitigate

v. to make less severe or less intense; to alleviate or lessen the adverse effects of something

synonym: alleviate, relieve, reduce

(1) **mitigate** risk, (2) **mitigate** a natural disaster Efforts to **mitigate** the effects of climate change require a coordinated and sustained effort by governments, businesses, and individuals.

probe

 a tool used for testing or examining, especially for medical or scientific purposes, or an exploratory mission to a planet or other celestial body; (verb) to investigate,

examine, or search into something

synonym: investigation, inquiry, examination

- a lunar probe,
 probe for inside information
 NASA sent a probe to study the atmosphere of Jupiter.
- 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**.

planet

rev

 any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star

synonym: earth, world, globe

(1) **planet** like the Earth, (2) save the **planet** Mercury is the closest **planet** to the sun.

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.

stream

n. a small, narrow river; a continuous flow of something, such as liquid, gas, people, vehicles, etc.

synonym: flow, current, brook

(1) the **stream** of time, (2) an endless **stream** of cars

Jet **streams** are the common name for air currents that form high in the atmosphere.

hurricane

 a violent, tropical, cyclonic storm of the western North Atlantic, having wind speeds of or over 64 knots (74 miles per hour)

synonym: cyclone, typhoon, storm

(1) a **hurricane** of applause, (2) the ravages of a **hurricane** The devastating **hurricane** caused widespread damage and left many people homeless.

perturb

 to disturb or agitate someone or something, causing feelings of anxiety or unease; to throw something into a state of chaos or disorder

synonym: disturb, agitate, unsettle

(1) **perturb** emotions, (2) **perturb** the peace

The loud music from the party next door is starting to **perturb** me.

environment

 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**.

Jovian

adj. relating to Jupiter or its characteristics

synonym: Jupiter, giant planet

(1) Jovian satellites, (2) Jovian planet

The **Jovian** moon Europa is believed to have an ocean beneath its icy surface.

shield

 a protective covering or structure, especially in the past, that soldiers held in front of their bodies to protect themselves

synonym: guard, protection, safeguard

(1) a heat **shield**, (2) a **shield** for protecting against a bullet Lead is an effective **shield** against X-rays, gamma rays, and other harmful radiation.

magnetic

adj. having the properties of attracting or repelling certain materials containing iron or steel

synonym: attractive, drawing, hypnotic

(1) magnetic field, (2) a magnetic tape

The **magnetic** force of the earth keeps our planet spinning.

bubble

n. a thin, round, and often transparent mass of gas that is surrounded by a thin layer of liquid; a state of economic or social prosperity that is unsustainable and eventually collapses

synonym: blob, balloon, mania

(1) **bubble** in the champagne glass, (2) economic **bubble** Many people worry that the current real estate market is a **bubble** that could burst soon.

magnetosphere

n. the region of space surrounding a planet or other celestial body in which its magnetic field dominates the interplanetary field; this region acts as a shield, protecting the body from the effects of solar wind and other energetic particles

synonym: magnetic field, magnetic shield

(1) **magnetosphere** boundary, (2) solar **magnetosphere**The Earth's **magnetosphere** protects us from harmful solar radiation.

nonetheless

adv. in spite of what has just been said or done; nevertheless synonym: nevertheless, regardless, still

(1) we are **nonetheless** confident, (2) love him **nonetheless**

They each choose **nonetheless** to battle.

responsible

adj. answerable or accountable for something within one's power, control, or management

synonym: accountable, answerable, liable

(1) **responsible** action, (2) **responsible** for a customer service

She's a **responsible** pet owner who ensures her dog gets enough exercise and a healthy diet.

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.
- n. an electronic device that is sent up into space and moves around the Earth or another planet, used for gathering information or communicating by radio, television, etc.

synonym: orbiter, asteroid, moon

- (1) a GPS **satellite**, (2) a meteorological **satellite** Launching an artificial **satellite** contributed to the technological development of our country.
- n. (a shortened form of telecommunications) the communication of information over long distances through various means such as phones, television, radio, and the internet

synonym: communication, telecommunications, telephony

(1) **telecom** industry, (2) **telecom** service providers The **telecom** company is planning to launch a new smartphone next month.

navigation

n. the act of directing a ship or airplane from place to place; advice or information intended to resolve a problem or challenge, especially as given by someone in authority

synonym: sailing, seafaring, pilotage

(1) **navigation** system, (2) visual **navigation**The plane's **navigation** system had problems, which mechanics found.

transmission

 n. the act or process of sending something from one person or place to another; the process of broadcasting over the airwaves, as in radio or television

synonym: transportation, communication, broadcast

satellite

telecom

(1) **transmission** speed, (2) the **transmission** gears of a car

Education is the **transmission** of civilization.

rely

v. to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.

synonym: depend, count, lean

(1) **rely** on convenience stores, (2) **rely** entirely on him Babies heavily **rely** on others for food.

monitor

v. to observe, check, and track the progress or quality of something over a period of time

synonym: proctor, check, observe

(1) **monitor** an exam, (2) **monitor** the data carefully They used a special receiver to **monitor** police radio channels.

complexity

 the state or quality of being complicated or intricate and difficult to understand

synonym: intricacy, sophistication, elaboration

(1) cognitive **complexity**, (2) **complexity** theory

The project's **complexity** made it difficult for the team to complete it on time.

structure

 the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts

synonym: construction, architecture, establishment

(1) the **structure** of a machine, (2) **structure** and function of the brain

The organizational **structure** of start-ups is often flat and straightforward.

verge

 the point at which something is about to happen or where something begins; the edge or margin of something, particularly a physical boundary or border synonym: brink, edge, margin

(1) **verge** of bankruptcy, (2) on the **verge** of tears He stood on the **verge** of a major discovery.

erupt

ν. (of a volcano) to become active and eject rocks, smoke, etc.; to start abruptly and violently

synonym: eject, emit, burst

(1) **erupt** in anger, (2) **erupt** into tears

Battles between whites and blacks **erupted** immediately.

unfortunately

adv. by bad luck; unluckily

synonym: regrettably, unluckily, alas

(1) **unfortunately** caught in a shower, (2) even more **unfortunately**

The treatments were done but, **unfortunately**, were unsuccessful.

scorch

 to burn the surface of something, usually accidentally, with a hot iron or flame

synonym: char, burn, singe

scorch your clothes, (2) careful not to scorch
 The sun scorched the desert, making it uninhabitable.

atmosphere

- n. the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative worksynonym: air, ambiance, circumstances
- (1) carbon dioxide in the **atmosphere**, (2) a convivial **atmosphere**

The spaceship began to burn up as it approached the Earth's atmosphere.

temperature

- n. the degree of hotness or coldness of a thing or placesynonym: climate, warmth, degree
- (1) extreme **temperatures**, (2) the atmospheric **temperature**

Cities around the world set records for highest temperatures

this summer.

degree

Kelvin

 a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment

synonym: level, qualification, diploma

- bachelor's degree, (2) degree centigrade
 She received her degree in psychology from the university.
- n. a unit of measurement for temperature in the International System of Units (SI), which starts at absolute zero, the theoretical lowest limit of temperature, and named after the British physicist William Thomson, also known as Lord Kelvin

synonym: K, degree

(1) **Kelvin** scale, (2) **Kelvin** measurement The scientist cooled the sample to just a couple of **Kelvin** to observe quantum effects.

simulate

v. to make a pretense of someone's behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes

synonym: pretend, imitate, mimic

- (1) **simulate** climate change, (2) **simulate** a future scenario He had painted the wood to **simulate** stone.
- v. to think about in-depth and evaluate to discover essential features or meaning

synonym: explore, examine, investigate

(1) **analyze** a chemical compound, (2) **analyze** your real motives

The teacher attempted to **analyze** the root cause of our mistake.

predict

v. to state beforehand that something will happen in the future, mainly based on knowledge or experience

synonym:

analyze

forecast, anticipate, foresee

(1) **predict** the future, (2) **predict** when she will arrive It's notoriously challenging to **predict** birth rates.

inevitably

adv. in a manner that cannot be avoided or prevented synonym: unavoidably, necessarily, surely

(1) **inevitably** decline with age, (2) **inevitably** reach the consumer

Because of his excellent performance, he will **inevitably** be promoted.

encounter

v. to face something, particularly something unpleasant or difficult, while attempting to do something else; to meet, especially unexpectedly

synonym: meet, run into, come across

(1) **encounter** a crisis, (2) **encounter** a storm I'm prepared to **encounter** challenges throughout this adventure.

Venus

- n. the planet second in order from the sun
- (1) Venus orbiter, (2) surface of VenusThey launched a rocket toward Venus.

mercury

 a heavy, silvery-white metal that is liquid at room temperature and is used in thermometers, electrical equipment, and other devices; (Mercury) the smallest planet and the nearest to the sun

synonym: quicksilver, hydrargyrum, Hg

(1) mercury poisoning, (2) Mercury Plan

The **mercury** in the thermometer had risen to the boiling point.

comet

 a celestial object consisting of a nucleus of ice and dust that goes around the sun

synonym: meteor, asteroid, meteoroid

(1) the surface of the **comet**, (2) **comet** Halley

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The **comet's** bright tail could be seen in the night sky.

endeavor

v. to make an earnest attempt or effort; to strive or work hard towards a goal or objective

synonym: attempt, strive, undertake

(1) **endeavor** to succeed, (2) **endeavor** as much as possible

We will **endeavor** to find a solution to the problem as quickly as possible.

cosmic

adj. relating to the universe or cosmos; vast or limitless synonym: astronomical, celestial, outer-space

(1) second **cosmic** velocity, (2) **cosmic** background radiation

Cosmic rays are high-energy particles that originate from outside the solar system.

meteorology

- the branch of science that deals with processes in the Earth's atmosphere that cause weather conditions
- (1) agricultural **meteorology**, (2) marine **meteorology**He conducted his research at the **meteorology** laboratory using large-scale computing.

evolution

- n. a gradual process of transformation of living thingssynonym: elaboration, expansion, transition
- (1) human **evolution**, (2) **evolution** theory They study the **evolution** of the universe.

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.

generic

adj. not specific; not linked to a particular brand or product *synonym*: common, ordinary, typical

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(1) a **generic** product, (2) **generic** version

The **generic** aspirin brand was just as effective as the name brand but much cheaper.

evolve

v. to develop gradually, or to cause the development of something or someone gradually

synonym: develop, mature, grow

(1) evolve, (2) evolve over the past decade

Eyeless fish **evolved** in dark caves.

pale

 adj. having skin that is very light colored; lacking in vitality or interest or effectiveness

synonym: sallow, faint, ashen

(1) a pale complexion, (2) pale pink

She turned **pale** when she heard the news.

dot

n. a very small circular mark, especially one that is printed

synonym: drop, dab, fleck

(1) connecting the dots, (2) dot blot method

The wallpaper had a pattern of pink **dots** on a white surface.

invisible

adj. impossible or nearly impossible to see

synonym: hidden, imperceptible, unseen

(1) an **invisible** asset, (2) **invisible** stars

The phenomenon is **invisible** at optical wavelengths.

Session 2: Spelling

1.	the stre of a machine	n.	the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
2.	dee centigrade	n.	a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment
3.	ener a crisis	<i>v</i> .	to face something, particularly something unpleasant or difficult, while attempting to do something else; to meet, especially unexpectedly
4.	traion speed	n.	the act or process of sending something from one person or place to another; the process of broadcasting over the airwaves, as in radio or television
5.	r_v up the crowd	n.	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
6.	navon system	n.	the act of directing a ship or airplane from place to place; advice or information intended to resolve a problem or challenge, especially as given by someone in authority
7.	unfely caught in a shower	adv.	by bad luck; unluckily

ANSWERS: 1. structure, 2. degree, 3. encounter, 4. transmission, 5. rev, 6. navigation, 7. unfortunately

8.	dit a well-ordered condition	<i>v</i> .	to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance
9.	solar magere	n.	the region of space surrounding a planet or other celestial body in which its magnetic field dominates the interplanetary field; this region acts as a shield, protecting the body from the effects of solar wind and other energetic particles
10.	Mey Plan	n.	a heavy, silvery-white metal that is liquid at room temperature and is used in thermometers, electrical equipment, and other devices; (Mercury) the smallest planet and the nearest to the sun
11.	the atmospheric temre	n.	the degree of hotness or coldness of a thing or place
12.	git trees	adj.	enormous; much bigger or more important than similar items usually are
13.	eve	v.	to develop gradually, or to cause the development of something or someone gradually
14.	even more unfely	adv.	by bad luck; unluckily
15.	dit sleep	<i>v</i> .	to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance

ANSWERS: 8. disrupt, 9. magnetosphere, 10. mercury, 11. temperature, 12. giant, 13. evolve, 14. unfortunately, 15. disrupt

16.	resle action	adj.	answerable or accountable for something within one's power, control, or management
17.	a conly varying mind	adv.	all the time
18.	extreme temres	n.	the degree of hotness or coldness of a thing or place
19.	pe pink	adj.	having skin that is very light colored; lacking in vitality or interest or effectiveness
20.	home prce	n.	the territory occupied by one of the constituent administrative districts of a nation
21.	a shd for protecting against a bullet	n.	a protective covering or structure, especially in the past, that soldiers held in front of their bodies to protect themselves
22.	ert into tears	ν.	(of a volcano) to become active and eject rocks, smoke, etc.; to start abruptly and violently
23.	Jon satellites	adj.	relating to Jupiter or its characteristics
24.	a convivial atmre	n.	the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work
25.	surface of Ves	n.	the planet second in order from the sun
26.	a pe complexion	adj.	having skin that is very light colored; lacking in vitality or interest or effectiveness
27.	a gd design	n.	a pattern of regularly spaced horizontal and vertical lines; a system of high tension cables by which electrical power is distributed throughout a region

ANSWERS: 16. responsible, 17. constantly, 18. temperature, 19. pale, 20. province, 21. shield, 22. erupt, 23. Jovian, 24. atmosphere, 25. Venus, 26. pale, 27. grid

28. love	him nonss	adv.	in spite of what has just been said or done; nevertheless
29. pe_	b emotions	ν.	to disturb or agitate someone or something, causing feelings of anxiety or unease; to throw something into a state of chaos or disorder
30. com	nty theory	n.	the state or quality of being complicated or intricate and difficult to understand
31. ch_	_e a dream	v.	to pursue something or someone to catch or capture them; to go after something vigorously or with determination; (noun) a pursuit or a hunt; a narrow groove or channel cut into a surface, often used for decorative purposes
32. zo_	e movie	n.	a dead body that has been brought back to life by a supernatural force; someone who acts or responds in a mechanical or apathetic way
33. theo	oretical phst	n.	a scientist who specializes in the field of physics
34. wild	goose che	v.	to pursue something or someone to catch or capture them; to go after something vigorously or with determination; (noun) a pursuit or a hunt; a narrow groove or channel cut into a surface, often used for decorative purposes
35. mi_	te risk	v.	to make less severe or less intense; to alleviate or lessen the adverse effects of something
ANSWF	-RS: 28 nonetheless	29 perturh 30 c	omplexity 31 chase 32 zombie 33

ANSWERS: 28. nonetheless, 29. perturb, 30. complexity, 31. chase, 32. zombie, 33. physicist, 34. chase, 35. mitigate

36.	agricultural metgy	n.	the branch of science that deals with processes in the Earth's atmosphere that cause weather conditions
37.	a_m at a specific target	<i>v</i> .	to try or plan to get or achieve something
38.	sch your clothes	<i>v</i> .	to burn the surface of something, usually accidentally, with a hot iron or flame
39.	Bengal prce	n.	the territory occupied by one of the constituent administrative districts of a nation
40.	stre and function of the brain	n.	the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
41.	coc background radiation	adj.	relating to the universe or cosmos; vast or limitless
42.	Jon planet	adj.	relating to Jupiter or its characteristics
43.	inely decline with age	adv.	in a manner that cannot be avoided or prevented
44.	eve over the past decade	<i>v</i> .	to develop gradually, or to cause the development of something or someone gradually
45.	a maic tape	adj.	having the properties of attracting or repelling certain materials containing iron or steel
46.	enor as much as possible	<i>v</i> .	to make an earnest attempt or effort; to strive or work hard towards a goal or objective

ANSWERS: 36. meteorology, 37. aim, 38. scorch, 39. province, 40. structure, 41. cosmic, 42. Jovian, 43. inevitably, 44. evolve, 45. magnetic, 46. endeavor

47.	on the vee of tears	n.	the point at which something is about to happen or where something begins; the edge or margin of something, particularly a physical boundary or border
48.	Ken measurement	n.	a unit of measurement for temperature in the International System of Units (SI) which starts at absolute zero, the theoretical lowest limit of temperature, and named after the British physicist William Thomson, also known as Lord Kelvin
49.	a heat shd	n.	a protective covering or structure, especially in the past, that soldiers held in front of their bodies to protect themselves
50.	a cont temperature	adj.	happening repeatedly or all the time
51.	gec version	adj.	not specific; not linked to a particular brand or product
52.	site a future scenario	v.	to make a pretense of someone's behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes
53.	carbon dioxide in the atmre	n.	the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work
54.	cognitive comty	n.	the state or quality of being complicated or intricate and difficult to understand

ANSWERS: 47. verge, 48. Kelvin, 49. shield, 50. constant, 51. generic, 52. simulate, 53. atmosphere, 54. complexity

55.	human evon	n.	a gradual process of transformation of living things
56.	an inle asset	adj.	impossible or nearly impossible to see
57.	ry on convenience stores	<i>v</i> .	to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.
58.	ert in anger	v.	(of a volcano) to become active and eject rocks, smoke, etc.; to start abruptly and violently
59.	ener a storm	ν.	to face something, particularly something unpleasant or difficult, while attempting to do something else; to meet, especially unexpectedly
60.	the surface of the cot	n.	a celestial object consisting of a nucleus of ice and dust that goes around the sun
61.	careful not to sch	<i>v</i> .	to burn the surface of something, usually accidentally, with a hot iron or flame
62.	the arrest of the cut	n.	someone who is responsible for a crime or wrongdoing
63.	pre for inside information	n.	a tool used for testing or examining, especially for medical or scientific purposes, or an exploratory mission to a planet or other celestial body; (verb) to investigate, examine, or search into something
64.	charged pale	n.	a small piece of something; a word or piece of a term with grammatical function but little or no significance

ANSWERS: 55. evolution, 56. invisible, 57. rely, 58. erupt, 59. encounter, 60. comet, 61. scorch, 62. culprit, 63. probe, 64. particle

65.	the cut of global warming	n.	someone who is responsible for a crime or wrongdoing
66.	a hune of applause	n.	a violent, tropical, cyclonic storm of the western North Atlantic, having wind speeds of or over 64 knots (74 miles per hour)
67.	connecting the d_ts	n.	a very small circular mark, especially one that is printed
68.	the sor system	adj.	of, from, or relating to the sun
69.	a wire gd	n.	a pattern of regularly spaced horizontal and vertical lines; a system of high tension cables by which electrical power is distributed throughout a region
70.	peb the peace	v.	to disturb or agitate someone or something, causing feelings of anxiety or unease; to throw something into a state of chaos or disorder
71.	talented phst	n.	a scientist who specializes in the field of physics
72.	maic field	adj.	having the properties of attracting or repelling certain materials containing iron or steel
73.	treus amount	adj.	very great in degree or extent or amount or impact; extremely good
74.	mite a natural disaster	ν.	to make less severe or less intense; to alleviate or lessen the adverse effects of something
75.	the stm of time	n.	a small, narrow river; a continuous flow of something, such as liquid, gas, people, vehicles, etc.

ANSWERS: 65. culprit, 66. hurricane, 67. dot, 68. solar, 69. grid, 70. perturb, 71. physicist, 72. magnetic, 73. tremendous, 74. mitigate, 75. stream

76. Ken scale	n.	a unit of measurement for temperature in the International System of Units (SI), which starts at absolute zero, the theoretical lowest limit of temperature, and named after the British physicist William Thomson, also known as Lord Kelvin
77. the traion gears of a car	n.	the act or process of sending something from one person or place to another; the process of broadcasting over the airwaves, as in radio or television
78. prt when she will arrive	<i>v</i> .	to state beforehand that something will happen in the future, mainly based on knowledge or experience
79. plt like the Earth	n.	any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
80. a GPS sate	n.	an electronic device that is sent up into space and moves around the Earth or another planet, used for gathering information or communicating by radio, television, etc.
81. magere boundary	n.	the region of space surrounding a planet or other celestial body in which its magnetic field dominates the interplanetary field; this region acts as a shield, protecting the body from the effects of solar wind and other energetic particles

ANSWERS: 76. Kelvin, 77. transmission, 78. predict, 79. planet, 80. satellite, 81. magnetosphere

82.	save the plt	n.	any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
83.	apoic event	adj.	describing severe damage and destruction in past or future events, or the end of the world
84.	visual navon	n.	the act of directing a ship or airplane from place to place; advice or information intended to resolve a problem or challenge, especially as given by someone in authority
85.	a conly innovative enterprise	adv.	all the time
86.	site climate change	ν.	to make a pretense of someone's behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes
87.	mor the data carefully	v.	to observe, check, and track the progress or quality of something over a period of time
88.	Ves orbiter	n.	the planet second in order from the sun
89.	loe a missing pet	v.	to specify or determine the exact position of someone or something
90.	bue in the champagne glass	n.	a thin, round, and often transparent mass of gas that is surrounded by a thin layer of liquid; a state of economic or social prosperity that is unsustainable and eventually collapses

ANSWERS: 82. planet, 83. apocalyptic, 84. navigation, 85. constantly, 86. simulate, 87. monitor, 88. Venus, 89. locate, 90. bubble

adj. extraordinary, unexpected, or difficult to 91. a we d dress explain adj. extraordinary, unexpected, or difficult to 92. the state of being we__d explain 93. a ge___c product adj. not specific; not linked to a particular brand or product an electronic device that is sent up into 94. a meteorological sa____te n. space and moves around the Earth or another planet, used for gathering information or communicating by radio, television, etc. 95. ine____ly reach the consumer adv. in a manner that cannot be avoided or prevented 96. second co___c velocity adj. relating to the universe or cosmos; vast or limitless to specify or determine the exact 97. lo___e a tumor position of someone or something 98. bachelor's de e a unit of measurement for angles, temperature, or level of proficiency or achievement: a rank or level of academic or professional attainment a gradual process of transformation of 99. ev____on theory n. living things a measure of the rate at which an 100. low-r v engine engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute 101. te____m industry (a shortened form of n. telecommunications) the communication of information over long distances through various means such as phones, television, radio, and the internet

ANSWERS: 91. weird, 92. weird, 93. generic, 94. satellite, 95. inevitably, 96. cosmic, 97. locate, 98. degree, 99. evolution, 100. rev, 101. telecom

102. a cont wind	adj.	happening repeatedly or all the time
103. d_t blot method	n.	a very small circular mark, especially one that is printed
104. treus popularity	adj.	very great in degree or extent or amount or impact; extremely good
105. a sor eclipse	adj.	of, from, or relating to the sun
106. economic bue	n.	a thin, round, and often transparent mass of gas that is surrounded by a thin layer of liquid; a state of economic or social prosperity that is unsustainable and eventually collapses
107. git tech company	adj.	enormous; much bigger or more important than similar items usually are
108. a lunar pre	n.	a tool used for testing or examining, especially for medical or scientific purposes, or an exploratory mission to a planet or other celestial body; (verb) to investigate, examine, or search into something
109. vee of bankruptcy	n.	the point at which something is about to happen or where something begins; the edge or margin of something, particularly a physical boundary or border
110. marine metgy	n.	the branch of science that deals with processes in the Earth's atmosphere that cause weather conditions
111. mey poisoning	n.	a heavy, silvery-white metal that is liquid at room temperature and is used in thermometers, electrical equipment, and other devices: (Mercury) the

smallest planet and the nearest to the

ANSWERS: 102. constant, 103. dot, 104. tremendous, 105. solar, 106. bubble, 107. giant, 108. probe, 109. verge, 110. meteorology, 111. mercury

sun

112. resle for a customer service	adj.	answerable or accountable for something within one's power, control, or management
113. we are nonss confident	adv.	in spite of what has just been said or done; nevertheless
114. tem service providers	n.	(a shortened form of telecommunications) the communication of information over long distances through various means such as phones, television, radio, and the internet
115. a_m to be a nurse	<i>v</i> .	to try or plan to get or achieve something
116. inle stars	adj.	impossible or nearly impossible to see
117. ry entirely on him	v.	to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.
118. zoe bank	n.	a dead body that has been brought back to life by a supernatural force; someone who acts or responds in a mechanical or apathetic way
119. mor an exam	v.	to observe, check, and track the progress or quality of something over a period of time
120. ane a chemical compound	<i>v</i> .	to think about in-depth and evaluate to discover essential features or meaning
121. the ravages of a hune	n.	a violent, tropical, cyclonic storm of the western North Atlantic, having wind speeds of or over 64 knots (74 miles per hour)

ANSWERS: 112. responsible, 113. nonetheless, 114. telecom, 115. aim, 116. invisible, 117. rely, 118. zombie, 119. monitor, 120. analyze, 121. hurricane

122. have apoic overtones	adj.	describing severe damage and destruction in past or future events, or the end of the world
123. ane your real motives	<i>v</i> .	to think about in-depth and evaluate to discover essential features or meaning
124. envnt affairs	n.	the natural world such as air, water, and land in which humans, animals, and plants live
125. enor to succeed	v.	to make an earnest attempt or effort; to strive or work hard towards a goal or objective
126. pale energy	n.	a small piece of something; a word or piece of a term with grammatical function but little or no significance
127. chaotic envnt	n.	the natural world such as air, water, and land in which humans, animals, and plants live
128. an endless stm of cars	n.	a small, narrow river; a continuous flow of something, such as liquid, gas, people, vehicles, etc.
129. prt the future	<i>v</i> .	to state beforehand that something will happen in the future, mainly based on knowledge or experience
130. cot Halley	n.	a celestial object consisting of a nucleus of ice and dust that goes around the sun

ANSWERS: 122. apocalyptic, 123. analyze, 124. environment, 125. endeavor, 126. particle, 127. environment, 128. stream, 129. predict, 130. comet

Session 3: Fill in the Blanks

1.	The wallpaper had a pattern of pink on a white surface.
n.	a very small circular mark, especially one that is printed
2.	The spaceship began to burn up as it approached the Earth's
n.	the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work
3.	I'm so sorry to you when you're pretty busy.
<i>v</i> .	to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance
4.	The robot can accurately construction material.
v.	to specify or determine the exact position of someone or something
5.	They each choose to battle.
ad	v. in spite of what has just been said or done; nevertheless
6.	We can calculate the position of the statistically.
n.	a small piece of something; a word or piece of a term with grammatical function but little or no significance
7.	We will to find a solution to the problem as quickly as possible.
ν.	to make an earnest attempt or effort; to strive or work hard towards a goal or objective
8.	The organizational of start-ups is often flat and straightforward.
n.	the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
	SWERS: 1. dots, 2. atmosphere, 3. disrupt, 4. locate, 5. nonetheless, 6. particles, endeavor, 8. structure

9.	They finally found the of the bug after a long time.
n.	someone who is responsible for a crime or wrongdoing
10.	The company is planning to launch a new smartphone next month.
n.	(a shortened form of telecommunications) the communication of information over long distances through various means such as phones, television, radio, and the internet
11.	Eyeless fish in dark caves.
v.	to develop gradually, or to cause the development of something or someone gradually
12.	Efforts to the effects of climate change require a coordinated and sustained effort by governments, businesses, and individuals.
<i>v</i> .	to make less severe or less intense; to alleviate or lessen the adverse effects of something
13.	The sun the desert, making it uninhabitable.
v.	to burn the surface of something, usually accidentally, with a hot iron or flame
14.	The plane's system had problems, which mechanics found.
n.	the act of directing a ship or airplane from place to place; advice or information intended to resolve a problem or challenge, especially as given by someone in authority
15.	I'm prepared to challenges throughout this adventure.
<i>v</i> .	to face something, particularly something unpleasant or difficult, while attempting to do something else; to meet, especially unexpectedly
16.	The loud music from the party next door is starting to me.
ν.	to disturb or agitate someone or something, causing feelings of anxiety or unease; to throw something into a state of chaos or disorder
	SWERS: 9. culprit, 10. telecom, 11. evolved, 12. mitigate, 13. scorched, 14. rigation, 15. encounter, 16. perturb

17.	Launching an artificialof our country.	contributed to the technological development
n.		up into space and moves around the Earth or ng information or communicating by radio,
18.	pattern roads often appear i	n urban areas.
n.		rizontal and vertical lines; a system of high all power is distributed throughout a region
19.	The project's made i	t difficult for the team to complete it on time.
n.	the state or quality of being com	plicated or intricate and difficult to understand
20.	Jet are the common nan atmosphere.	ne for air currents that form high in the
n.	a small, narrow river; a continuo people, vehicles, etc.	us flow of something, such as liquid, gas,
21.	She turned when she heard	the news.
adj	having skin that is very light cold effectiveness	ored; lacking in vitality or interest or
22.	Every human is responsible for ta	king care of the Earth's
n.	the natural world such as air, war plants live	ater, and land in which humans, animals, and
23.	We for an overseas expansio	n.
<i>v</i> .	to try or plan to get or achieve so	omething
24.	The aspirin brand was jucheaper.	st as effective as the name brand but much
adj	not specific; not linked to a partic	cular brand or product
	SWERS: 17. satellite, 18. Grid, 19. vironment, 23. aim, 24. generic	complexity, 20. streams, 21. pale, 22.

ANSWERS: 25. simulate, 26. meteorology, 27. hurricane, 28. evolution, 29. analyze, 30. transmission, 31. mercury

planet and the nearest to the sun

thermometers, electrical equipment, and other devices; (Mercury) the smallest

ANSWERS: 32. monitor, 33. giant, 34. temperatures, 35. invisible, 36. verge, 37. planet, 38. comet's, 39. chased

groove or channel cut into a surface, often used for decorative purposes

47. _____ rays are high-energy particles that originate from outside the solar system.adj. relating to the universe or cosmos; vast or limitless

a scientist who specializes in the field of physics

ANSWERS: 40. Venus, 41. Solar, 42. inevitably, 43. constantly, 44. province, 45. bubble, 46. physicist, 47. Cosmic

ANSWERS: 48. Jovian, 49. degree, 50. magnetosphere, 51. rev, 52. Kelvin, 53. responsible, 54. zombie

ANSWERS: 55. rely, 56. probe, 57. erupted, 58. Constant, 59. weird, 60. shield, 61. predict, 62. tremendous

adj. very great in degree or extent or amount or impact; extremely good

62. We had a _____ time yesterday.

Vocab-Builder Ref from "Miho Janvier: Lessons from a solar storm chaser | TED Talk" (65 words)

ANSWERS: 63. apocalyptic, 64. unfortunately, 65. magnetic