# **Englist.me**

## Vocabulary Builder Reference from...

Carter Emmart: A 3D atlas of the universe | TED Talk https://www.ted.com/talks/carter\_emmart\_a\_3d\_atlas \_of\_the\_universe



## **All Words**

#### **IMPORTANT**

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# **Session 1: Word List**

#### honor

 high regard or great respect for someone; the quality of having and doing based on a keen sense of morality; (verb) to show respect towards someone

synonym: integrity, virtue, acclaim

(1) womanly honor,(2) honor our ancestorsI claim on my honor that it is true.

## digital

adj. processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet

synonym: numerical, computerized, cyber

(1) a **digital** watch, (2) **digital** electronic signature Sensors convert physical phenomena into **digital** signals.

#### universe

 everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy

synonym: cosmos, macrocosm

(1) theory of the **universe**, (2) expansion of the **universe** The **universe** is about 13.8 billion years old.

## humanity

n. all people living on the earth; the quality or state of being human rather than an animal, a machine, etc.

synonym:

humankind, society, human race

(1) humanity at large, (2) mass of humanity

They donated large sums of money for the development of **humanity**.

roll

v. to move in a particular direction by turning over and over or from side to side

synonym: spin, swirl, wheel

(1) roll a ball, (2) roll down his cheeks

He was exhausted and **rolled** into bed as soon as he got home.

horizon

 the line at which the earth's surface and the sky appear to meet; the range of interest or activity that can be anticipated

*synonym*: skyline, view, visible boundary

(1) the event **horizon** of a black hole, (2) business **horizon** As the sun set, the colors of the sky merged with the **horizon**, creating a beautiful orange and pink hue.

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.

metaphor

 a figure of speech in which an expression is used to refer to something that it does not denote to suggest a similarity

synonym: conceit, analogy, symbol

(1) metaphor for death, (2) visual metaphor

She expressed her thought in an artful choice of metaphors.

infinite

adj. unlimited or very great; impossible to measure

synonym: boundless, countless, limitless

(1) infinite appetite, (2) infinite in supply

The battle had an **infinite** impact on the nation.

#### unbounded

adj. having no limits or restrictions; limitless; boundless synonym: limitless, infinite, boundless

(1) **unbounded** optimism, (2) **unbounded** compassion The artist's creativity was **unbounded**, constantly pushing boundaries with his work.

#### unlimited

adj. without any limits or restrictionssynonym: unrestricted, boundless, limitless

(1) **unlimited** liability, (2) **unlimited** resources

An **unlimited** data plan is a popular option for heavy internet users.

## dispose

to put things or people in a particular manner or position;
 to incline someone towards a specific activity or mood;
 throw or cast away

synonym: get rid of, arrange, set

(1) **dispose** battleships for a battle, (2) **dispose** of a used product

Generally speaking, the child is innately **disposed** to learn a language.

## 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.

## planet

 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.

#### atlas

 a book of maps or charts; a figure in Greek mythology who bore the weight of the world on his shoulders

synonym: map, chart, gazetteer

(1) atlas map, (2) atlas of anatomy

The world atlas showed me the locations of all the countries.

#### maintain

v. to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true

synonym: preserve, uphold, sustain

(1) **maintain** order, (2) **maintain** good health I need to **maintain** my car regularly to prevent any major mechanical issues.

chart

 a visual display of information such as a diagram, lists of figures, etc.; a map designed to assist navigation by air or sea

synonym: diagram, graph, map

(1) a weather **chart**, (2) a statistical **chart** This pie **chart** represents our market share.

#### satellite

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.

## registration

n. the process of recording or enrolling for a particular course or event; the action or process of officially recording or enrolling something, such as a name or trademark

synonym: enrollment, registry, record-keeping

(1) **registration** agency, (2) **registration** for a course The online **registration** process was quick and easy to complete.

#### rebuild

v. to build again or anew

synonym: reconstruct, renovate, restore

rebuild a company, (2) rebuild communities
 They are planning to rebuild the house after the fire.

## planetarium

- n. a building or facility that is designed to display the positions and movements of stars, planets, and other celestial bodies on a dome-shaped surface using a projection system
- (1) optical **planetarium** projector, (2) inflatable **planetarium** The **planetarium's** digital projection system provides an immersive experience of outer space.

#### basis

 the most important facts, ideas, or events from which something is developed; the way how things are organized or arranged

synonym: foundation, base, ground

- on an equal basis,
   basis for calculation
   evidence will form the basis for our discussion.
- dome n. a round

 a rounded vault forming the roof of a building or structure, typically with a circular base

synonym: hemisphere, cupola, vaults

(1) snow **dome**, (2) **dome** structure

The cathedral **dome** soared high above, its stained-glass windows casting colorful light on the altar below.

#### intern

to put someone in prison, especially for political or military reasons; (noun) a student or trainee who works, sometimes for free, to get work experience or to fulfill qualification criteria

synonym: apprentice, trainee, student

(1) intern civilians, (2) medical intern

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The navy **interned** ships of defeated nations.

stud

n. a small object with a head on one end and a sharp point on the other, used for fastening clothing, leather, or other materials; an animal used for breeding, typically a male horse or bull that is of superior breeding stock; (verb) to decorate or adorn with studs; to provide with studs for support

synonym: beam, scantling, framing

(1) horse stud, (2) wall stud

He bought a new **stud** to attach the strap to his watch.

graduate

 a person who has a first degree from university or college; (verb) to complete the first course of university or college and get a degree

synonym: alumna, alum, grad

graduate degree program, (2) honor graduate
 Many employers hire graduate trainees to train as managers.

software

 a set of computer programs and associated documentation and data for doing particular computational jobs

synonym: program, system, operating system

(1) **software** architect, (2) copyrighted **software**The company specializes in both hardware and **software**.

interactive

adj. acting reciprocally; mutually responsive synonym: reciprocal, responsive, mutual

(1) **interactive** experience, (2) an **interactive** device The new video game has an **interactive** storyline that allows players to make choices that affect the game's outcome.

flee

v. to leave by running away, especially out of fear or danger

synonym: exit, escape, run away

(1) flee their homes, (2) flee abroadIt is a basic instinct to flee from a dangerous situation.

#### capture

v. to catch a person or an animal and confine them in an area which they cannot escape

synonym: catch, arrest, imprison

(1) **capture** a glimpse, (2) **capture** customers' hearts I was able to **capture** the moment on film.

## laptop

- a portable computer that is small enough to be carried around easily and used on your lap
- (1) bring my **laptop**, (2) thin-and-light **laptop**I need to finish this report by tonight, so I'll be working on my **laptop** all day.

#### collaborate

v. to work with someone else to produce or achieve something

synonym: cooperate, unite, get together

(1) **collaborate** with the police, (2) **collaborate** on a press release

She agreed to **collaborate** with him in creating new artwork.

#### exhibit

v. to show something in public for people to enjoy or to provide them with information

synonym: display, expose, show

(1) **exhibit** a bad attitude, (2) **exhibit** a great talent Other technology industries **exhibit** similarly explosive growth.

## comparative

adj. relating to the comparison of different things or groups; denoting a degree of difference or comparison between two or more things; characterized by comparison or contrast

synonym: relative, approximate, correlative

(1) **comparative** viewpoint, (2) **comparative** analysis The **comparative** study of different cultures is fascinating and informative.

## cosmology

 the scientific study of the nature and origin of the universe synonym: cosmogony

physical cosmology, (2) modern cosmology
 Cosmology evolved from people's philosophical questions about the natural world.

## continuously

*adv.* without being interrupted or paused; repeatedly *synonym*: constantly, frequently, always

(1) use one thing **continuously**, (2) **continuously** removed The country's domestic coal consumption has been **continuously** declining for decades.

#### realm

- n. a domain of activity, interest, or knowledgesynonym: domain, empire, kingdom
- (1) public **realm**, (2) beyond the **realm** of possibility Her passions are in the **realm** of real-world political affairs.

## galaxy

- n. an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravitysynonym: star cluster, nebula, star system
- (1) elliptic **galaxy**, (2) a **galaxy** of famous actors
  The Milky Way **galaxy** has numerous water-bearing planets.

#### distant

- adj. far away in space, time, or where you are; far apart in relevance, relationship, or kinshipsynonym: far, isolated, remote
- (1) a **distant** memory, (2) **distant** ancestors The sun set over the crest of **distant** hills.

## essentially

adv. relating to the essential features or concepts of anything synonym: fundamentally, basically, virtually

(1) **essentially** correct, (2) become **essentially** same **Essentially**, a society is an organism.

## afterglow

n. a period of time following an event or experience during which a feeling of pleasure, satisfaction, or contentment persists; a lingering glow or light that remains after an

object has disappeared from view

synonym: glow, sunset, twilight

(1) concert **afterglow**, (2) romantic **afterglow** 

The **afterglow** of the sunset was a beautiful end to a long day.

## bang

v. to hit or cause to hit something in a way that makes a loud noise

*synonym*: crash, hit, smash

(1) **bang** his fist on a desk, (2) **bang** a phone down My father tried to **bang** mathematics into my head since childhood.

#### microwave

n. a form of electromagnetic radiation with wavelengths ranging from about one millimeter to one meter and frequencies between 300 MHz (0.3 GHz) and 300 GHz; an electric oven that cooks food by exposing it to high-frequency electromagnetic radiation, which causes the food molecules to vibrate and heat up quickly

synonym: oven, waveguide, radar range

(1) **microwave** radiation, (2) **microwave** popcorn

I heated my leftover food in the **microwave** oven, which tasted just as good as freshly cooked.

## background

 n. the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem

synonym: ground, experience, backdrop

(1) a **background** color, (2) a criminal **background**The company's hiring criteria emphasize personality, not a person's **background**.

## meaningless

adj. having no meaning, direction, or purposesynonym: pointless, absurd, senseless

(1) a **meaningless** endeavor, (2) do a **meaningless** task This experiment's results are **meaningless** because the other conditions are not identical.

#### visible

adj. capable of being seen; or open to easy viewsynonym: clear, observable, seeable

(1) **visible** stars, (2) **visible** by X-ray

My home is easily **visible** from the shore.

## sphere

 a round object or geometric shape that is three-dimensional and symmetrical around a central point; a particular aspect or scope of life or activity

synonym: ball, globe, scope

(1) **sphere** of influence, (2) business **sphere**The **sphere** of the earth is divided into several layers including the crust, mantle, and core.

## posit

v. to suggest or accept something as fact or as a basis for argument or consideration

synonym: assert, declare, assume

(1) **posit** the existence of life after death, (2) **posit** the premise

We should **posit** several hypotheses to discuss the matter.

#### exoplanet

- n. a planet that orbits a star outside of the solar system
- (1) the closest **exoplanet** to Earth, (2) **exoplanet** mission The **exoplanet** Kepler-186f is located 500 light-years from Earth and is believed to be habitable.

#### obvious

adj. easy to see, discover or understand synonym: apparent, conspicuous, evident

(1) **obvious** reasons, (2) his conclusion was **obvious** There are **obvious** differences between the two wine-producing regions.

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.

## magnitude

- *n.* the extent, level, importance, or amount of something *synonym*: size, extent, level
- (1) a star of the first **magnitude**, (2) the **magnitude** of the disaster

The **magnitude** of the earthquake was measured at 7.8 on the Richter scale.

## voyage

- n. a long journey, especially by sea or in spacesynonym: journey, trip, excursion
- a voyage of discovery, (2) take a voyage
   The astronaut trained for years before embarking on her voyage to the International Space Station.

## pioneer

inventor; explorer; someone who is among the first to achieve something

synonym: frontiersperson, innovator, trailblazer

(1) act as a pioneer,(2) early pioneersJohn Whitney was a computer animation pioneer.

## spacecraft

 a vehicle designed to travel through space, typically carrying astronauts or scientific instruments

*synonym*: spaceship, satellite, probe

(1) spacecraft launch, (2) alien spacecraft

The human-crewed **spacecraft** successfully landed on the moon, fulfilling its mission.

#### orbit

n. the path of an object around a celestial body, especially a planet, star, or moon, under the influence of gravity; (of medicine) the bony cavity in the skull that houses the eyeball and its associated structures, like muscles, nerves, and blood vessels

*synonym*: path, course, trajectory

(1) the **orbit** of the moon, (2) a planetary **orbit**The rocket engine is used to put the satellite into **orbit**.

## 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.

## trajectory

the curved path followed by an object moving through space

*synonym*: course, curve, orbit

(1) career trajectory, (2) a trajectory missile

The company has shown an excellent growth **trajectory** over the years.

#### phase

- n. any stage in a series of events, change, or developmentsynonym: degree, stage, step
- (1) enter on the last **phase**, (2) two- **phase** structure The era of the industrial revolution was a crucial **phase** of history.

## ingeniously

adv. in a clever, inventive, or resourceful manner; with great skill, creativity, or ingenuity

synonym: cleverly, resourcefully

(1) ingeniously planned, (2) ingeniously crafted

The engineer **ingeniously** solved the complex problem with a simple yet effective solution.

## develop

v. to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created

*synonym*: evolve, progress, advance

(1) develop a strategy, (2) develop a skill

We must **develop** a new system to streamline our workflow and increase efficiency.

#### 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.

#### titanic

 adj. of or having a great size, power, or influence; of or relating to Titanium (= a light, strong grey, lustrous, corrosion-resistant metallic element)

synonym: colossal, massive, immense

(1) titanic battle, (2) titanic compound

The **titanic** ship sank on its maiden voyage.

## 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.

#### divert

v. to change the course or direction of something, often away from a specific path or target; to entertain or amuse someone, often to distract them from a problem or concern; to appropriate something for a different purpose

synonym: distract, redirect, sidetrack

(1) **divert** attention, (2) **divert** an assault

Due to the road construction, we had to **divert** our course to get to the restaurant.

#### sub-Saharan

- adj. of or relating to or situated in the area south of the Sahara Desert
- (1) sub-Saharan Africa, (2) sub-Saharan countries

The coffee producers in **sub-Saharan** countries are at the sharp end of fluctuations in price.

## ghetto

 an area of a city in which members of a particular group, typically an ethnic minority, usually live in poverty and with a high population density

synonym: slum, shantytown, inner city

(1) ghetto apartments, (2) ghetto school

The residents of the **ghetto** faced poverty and discrimination.

## photograph

 a picture or image that is produced by a camera; a visual representation or record of a person, object, or scene that has been captured electronically or on film

*synonym*: photo, picture, snapshot

- (1) **photograph** album, (2) **photograph** memories

  I found an old **photograph** of my grandparents from their wedding day.
- n. a long depression on the surface of the land, which typically contains a river

synonym: canyon, gorge, dale

(1) valley bottom, (2) basin-shaped valley

The valley had received a mild snowfall the previous week.

haze

valley

 atmospheric moisture, dust, or smoke that makes it less clear; a state of mental confusion caused by lack of clarity

synonym: fog, mist, brume

(1) a haze of illusion, (2) haze of tears

We couldn't see him through the haze of smoke.

fir

 a type of tall evergreen tree that is native to the northern hemisphere, with needle-like leaves and cones that stand upright on the branches

synonym: pine, spruce, cedar

(1) fir branch, (2) fir forest

The smell of fresh fir trees filled the air at the Christmas tree

farm.

#### forth

adv. forward, outward, or onward in location, direction, or progress; into view or consideration; with confidence, boldness, or in the open

synonym: forward, onwards, ahead

(1) bring **forth** a beautiful vase, (2) call **forth** demand I pushed **forth** with my new project, even though it would take much hard work.

#### brave

adj. showing courage or fearlessness in the face of danger, difficulty, or adversity

synonym: courageous, valiant, heroic

(1) brave soldier, (2) brave decision

The **brave** firefighter rescued the family from the burning building.

#### context

 the circumstances, facts, or conditions that surround a particular event, situation, or statement and that give it meaning

synonym: background, setting, environment

(1) historical context, (2) legal context

It's important to understand the **context** of a situation before making a decision.

# **Session 2: Spelling**

1.	sore architect	n.	a set of computer programs and associated documentation and data for doing particular computational jobs
2.	inn civilians	ν.	to put someone in prison, especially for political or military reasons; (noun) a student or trainee who works, sometimes for free, to get work experience or to fulfill qualification criteria
3.	the closest exet to Earth	n.	a planet that orbits a star outside of the solar system
4.	a criminal bacnd	n.	the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem
5.	uned resources	adj.	without any limits or restrictions
6.	pot the existence of life after death	v.	to suggest or accept something as fact or as a basis for argument or consideration
7.	die battleships for a battle	ν.	to put things or people in a particular manner or position; to incline someone towards a specific activity or mood; throw or cast away
8.	spaft launch	n.	a vehicle designed to travel through space, typically carrying astronauts or scientific instruments

ANSWERS: 1. software, 2. intern, 3. exoplanet, 4. background, 5. unlimited, 6. posit, 7. dispose, 8. spacecraft

9.	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
10.	an intve device	adj.	acting reciprocally; mutually responsive
11.	vie stars	adj.	capable of being seen; or open to easy view
12.	grte degree program	n.	a person who has a first degree from university or college; (verb) to complete the first course of university or college and get a degree
13.	gho school	n.	an area of a city in which members of a particular group, typically an ethnic minority, usually live in poverty and with a high population density
14.	medical inn	ν.	to put someone in prison, especially for political or military reasons; (noun) a student or trainee who works, sometimes for free, to get work experience or to fulfill qualification criteria
15.	womanly hor	n.	high regard or great respect for someone; the quality of having and doing based on a keen sense of morality; (verb) to show respect towards someone
16.	dit ancestors	adj.	far away in space, time, or where you are; far apart in relevance, relationship, or kinship

ANSWERS: 9. planet, 10. interactive, 11. visible, 12. graduate, 13. ghetto, 14. intern, 15. honor, 16. distant

17. tic compound	adj.	of or having a great size, power, or influence; of or relating to Titanium (= a light, strong grey, lustrous, corrosion-resistant metallic element)
18. vay bottom	n.	a long depression on the surface of the land, which typically contains a river
19. theory of the unse	n.	everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
20. 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
21. mass of huty	n.	all people living on the earth; the quality or state of being human rather than an animal, a machine, etc.
22. bring foh a beautiful vase	adv.	forward, outward, or onward in location, direction, or progress; into view or consideration; with confidence, boldness, or in the open
23. f_r forest	n.	a type of tall evergreen tree that is native to the northern hemisphere, with needle-like leaves and cones that stand upright on the branches
24. region agency	n.	the process of recording or enrolling for a particular course or event; the action or process of officially recording or enrolling something, such as a name or trademark

ANSWERS: 17. titanic, 18. valley, 19. universe, 20. mercury, 21. humanity, 22. forth, 23. fir, 24. registration

25. re d a company to build again or anew ν. 26. thin-and-light la\_\_\_p a portable computer that is small n. enough to be carried around easily and used on your lap everything that exists, especially all 27. expansion of the un se n. physical matter, including planets, stars, galaxies, and all other forms of matter and energy the most important facts, ideas, or 28. on an equal ba\_\_s events from which something is developed; the way how things are organized or arranged to suggest or accept something as fact 29. po\_t the premise ν. or as a basis for argument or consideration 30. enter on the last ph e any stage in a series of events, change, n. or development 31. a tra\_\_\_\_ry missile the curved path followed by an object n. moving through space 32. mi\_\_\_\_ve radiation a form of electromagnetic radiation with n. wavelengths ranging from about one millimeter to one meter and frequencies between 300 MHz (0.3 GHz) and 300 GHz; an electric oven that cooks food by exposing it to high-frequency electromagnetic radiation, which causes the food molecules to vibrate and heat up quickly the path of an object around a celestial 33. the or t of the moon body, especially a planet, star, or moon, under the influence of gravity; (of medicine) the bony cavity in the skull that houses the eyeball and its associated structures, like muscles, nerves, and blood vessels

ANSWERS: 25. rebuild, 26. laptop, 27. universe, 28. basis, 29. posit, 30. phase, 31. trajectory, 32. microwave, 33. orbit

34.	a star of the first made	n.	the extent, level, importance, or amount of something
35.	a he of illusion	n.	atmospheric moisture, dust, or smoke that makes it less clear; a state of mental confusion caused by lack of clarity
36.	inflatable plaum	n.	a building or facility that is designed to display the positions and movements of stars, planets, and other celestial bodies on a dome-shaped surface using a projection system
37.	uned compassion	adj.	having no limits or restrictions; limitless; boundless
38.	main order	ν.	to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true
39.	physical cogy	n.	the scientific study of the nature and origin of the universe
40.	a sor eclipse	adj.	of, from, or relating to the sun
41.	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
42.	bas for calculation	n.	the most important facts, ideas, or events from which something is developed; the way how things are organized or arranged
43.	do a meass task	adj.	having no meaning, direction, or purpose
44.	colte with the police	<i>v</i> .	to work with someone else to produce or achieve something

ANSWERS: 34. magnitude, 35. haze, 36. planetarium, 37. unbounded, 38. maintain, 39. cosmology, 40. solar, 41. atmosphere, 42. basis, 43. meaningless, 44. collaborate

45.	re	d	communitie	es

- 46. sp\_\_\_e of influence
- 47. ev\_\_\_e
- 48. snow d\_\_e
- 49. visual me or
- 50. copyrighted so\_\_\_\_re
- 51. r\_\_l a ball
- 52. di\_\_\_t attention

53. de p a skill

- v. to build again or anew
- a round object or geometric shape that is three-dimensional and symmetrical around a central point; a particular aspect or scope of life or activity
- v. to develop gradually, or to cause the development of something or someone gradually
- a rounded vault forming the roof of a building or structure, typically with a circular base
- a figure of speech in which an expression is used to refer to something that it does not denote to suggest a similarity
- a set of computer programs and associated documentation and data for doing particular computational jobs
- v. to move in a particular direction by turning over and over or from side to side
- v. to change the course or direction of something, often away from a specific path or target; to entertain or amuse someone, often to distract them from a problem or concern; to appropriate something for a different purpose
- v. to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created

ANSWERS: 45. rebuild, 46. sphere, 47. evolve, 48. dome, 49. metaphor, 50. software, 51. roll, 52. divert, 53. develop

54.	at_s map	n.	a book of maps or charts; a figure in Greek mythology who bore the weight of the world on his shoulders
55.	hor our ancestors	n.	high regard or great respect for someone; the quality of having and doing based on a keen sense of morality; (verb) to show respect towards someone
56.	de structure	n.	a rounded vault forming the roof of a building or structure, typically with a circular base
57.	alien spaft	n.	a vehicle designed to travel through space, typically carrying astronauts or scientific instruments
58.	exet mission	n.	a planet that orbits a star outside of the solar system
59.	his conclusion was obs	adj.	easy to see, discover or understand
60.	elliptic gay	n.	an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity
61.	ingly crafted	adv.	in a clever, inventive, or resourceful manner; with great skill, creativity, or ingenuity
62.	ener a crisis	v.	to face something, particularly something unpleasant or difficult, while attempting to do something else; to meet, especially unexpectedly
63.	colte on a press release	<i>v</i> .	to work with someone else to produce or achieve something

ANSWERS: 54. atlas, 55. honor, 56. dome, 57. spacecraft, 58. exoplanet, 59. obvious, 60. galaxy, 61. ingeniously, 62. encounter, 63. collaborate

64. wall sd	n.	a small object with a head on one end and a sharp point on the other, used for fastening clothing, leather, or other materials; an animal used for breeding, typically a male horse or bull that is of superior breeding stock; (verb) to decorate or adorn with studs; to provide with studs for support
65. ext a bad at	titude v.	to show something in public for people to enjoy or to provide them with information
66. 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
67. dit an assault	· v.	to change the course or direction of something, often away from a specific path or target; to entertain or amuse someone, often to distract them from a problem or concern; to appropriate something for a different purpose
68. fe their homes	v.	to leave by running away, especially out of fear or danger
69. mey poisoni	ng 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
70. b_g his fist on a	desk v.	to hit or cause to hit something in a way that makes a loud noise

ANSWERS: 64. stud, 65. exhibit, 66. planet, 67. divert, 68. flee, 69. mercury, 70. bang

71.	f_r branch	n.	a type of tall evergreen tree that is native to the northern hemisphere, with needle-like leaves and cones that stand upright on the branches
72.	ingly planned	adv.	in a clever, inventive, or resourceful manner; with great skill, creativity, or ingenuity
73.	dep a strategy	<i>v</i> .	to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
74.	the made of the disaster	n.	the extent, level, importance, or amount of something
75.	comve analysis	adj.	relating to the comparison of different things or groups; denoting a degree of difference or comparison between two or more things; characterized by comparison or contrast
76.	a gay of famous actors	n.	an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity
77.	suban countries	adj.	of or relating to or situated in the area south of the Sahara Desert
78.	consly removed	adv.	without being interrupted or paused; repeatedly
79.	public rem	n.	a domain of activity, interest, or knowledge

ANSWERS: 71. fir, 72. ingeniously, 73. develop, 74. magnitude, 75. comparative, 76. galaxy, 77. sub-Saharan, 78. continuously, 79. realm

80.	a meteorological 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.	region for a course	n.	the process of recording or enrolling for a particular course or event; the action or process of officially recording or enrolling something, such as a name or trademark
82.	die of a used product	v.	to put things or people in a particular manner or position; to incline someone towards a specific activity or mood; throw or cast away
83.	the sor system	adj.	of, from, or relating to the sun
84.	at_s of anatomy	n.	a book of maps or charts; a figure in Greek mythology who bore the weight of the world on his shoulders
85.	romantic afow	n.	a period of time following an event or experience during which a feeling of pleasure, satisfaction, or contentment persists; a lingering glow or light that remains after an object has disappeared from view
86.	suban Africa	adj.	of or relating to or situated in the area south of the Sahara Desert
87.	eve over the past decade	v.	to develop gradually, or to cause the development of something or someone gradually

ANSWERS: 80. satellite, 81. registration, 82. dispose, 83. solar, 84. atlas, 85. afterglow, 86. sub-Saharan, 87. evolve

88. 3	a bacnd color	n.	the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem
89. (	cognitive comty	n.	the state or quality of being complicated or intricate and difficult to understand
90. ł	ne of tears	n.	atmospheric moisture, dust, or smoke that makes it less clear; a state of mental confusion caused by lack of clarity
91. a	a statistical cht	n.	a visual display of information such as a diagram, lists of figures, etc.; a map designed to assist navigation by air or sea
92. a	a planetary ort	n.	the path of an object around a celestial body, especially a planet, star, or moon, under the influence of gravity; (of medicine) the bony cavity in the skull that houses the eyeball and its associated structures, like muscles, nerves, and blood vessels
93. a	act as a pir	n.	inventor; explorer; someone who is among the first to achieve something
94. t	two-phe structure	n.	any stage in a series of events, change, or development
95. ł	nonor grte	n.	a person who has a first degree from university or college; (verb) to complete the first course of university or college and get a degree

ANSWERS: 88. background, 89. complexity, 90. haze, 91. chart, 92. orbit, 93. pioneer, 94. phase, 95. graduate

96. cae customers' hearts	<i>v</i> .	to catch a person or an animal and confine them in an area which they cannot escape
97. vie by X-ray	adj.	capable of being seen; or open to easy view
98. legal cot	n.	the circumstances, facts, or conditions that surround a particular event, situation, or statement and that give it meaning
99. take a voe	n.	a long journey, especially by sea or in space
100. huty at large	n.	all people living on the earth; the quality or state of being human rather than an animal, a machine, etc.
101. intve experience	adj.	acting reciprocally; mutually responsive
102. career trary	n.	the curved path followed by an object moving through space
103. early pirs	n.	inventor; explorer; someone who is among the first to achieve something
104. become essly same	adv.	relating to the essential features or concepts of anything
105. call fo_h demand	adv.	forward, outward, or onward in location, direction, or progress; into view or consideration; with confidence, boldness, or in the open
106. rI down his cheeks	v.	to move in a particular direction by turning over and over or from side to side

ANSWERS: 96. capture, 97. visible, 98. context, 99. voyage, 100. humanity, 101. interactive, 102. trajectory, 103. pioneer, 104. essentially, 105. forth, 106. roll

107. basin-shaped vay	n.	a long depression on the surface of the land, which typically contains a river
108. historical cot	n.	the circumstances, facts, or conditions that surround a particular event, situation, or statement and that give it meaning
109. bring my lap	n.	a portable computer that is small enough to be carried around easily and used on your lap
110. essly correct	adv.	relating to the essential features or concepts of anything
111. comty theory	n.	the state or quality of being complicated or intricate and difficult to understand
112. the event hon of a black hole	n.	the line at which the earth's surface and the sky appear to meet; the range of interest or activity that can be anticipated
113. uned liability	adj.	without any limits or restrictions
114. phoph album	n.	a picture or image that is produced by a camera; a visual representation or record of a person, object, or scene that has been captured electronically or on film
115. diI electronic signature	adj.	processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet
116. horse sd	n.	a small object with a head on one end and a sharp point on the other, used for fastening clothing, leather, or other materials; an animal used for breeding, typically a male horse or bull that is of superior breeding stock; (verb) to decorate or adorn with studs; to provide with studs for support

ANSWERS: 107. valley, 108. context, 109. laptop, 110. essentially, 111. complexity,



117. phoph memories	n.	a picture or image that is produced by a camera; a visual representation or record of a person, object, or scene that has been captured electronically or on film
118. beyond the rem of possibility	n.	a domain of activity, interest, or knowledge
119. mive popcorn	n.	a form of electromagnetic radiation with wavelengths ranging from about one millimeter to one meter and frequencies between 300 MHz (0.3 GHz) and 300 GHz; an electric oven that cooks food by exposing it to high-frequency electromagnetic radiation, which causes the food molecules to vibrate and heat up quickly
120. inte in supply	adj.	unlimited or very great; impossible to measure
121. main good health	v.	to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true
122. a weather cht	n.	a visual display of information such as a diagram, lists of figures, etc.; a map designed to assist navigation by air or sea
123. meor for death	n.	a figure of speech in which an expression is used to refer to something that it does not denote to suggest a similarity
124. obs reasons	adj.	easy to see, discover or understand

ANSWERS: 117. photograph, 118. realm, 119. microwave, 120. infinite, 121. maintain, 122. chart, 123. metaphor, 124. obvious

125. modern cogy	n.	the scientific study of the nature and origin of the universe
126. bg a phone down	<i>v</i> .	to hit or cause to hit something in a way that makes a loud noise
127. inte appetite	adj.	unlimited or very great; impossible to measure
128. optical plaum projector	n.	a building or facility that is designed to display the positions and movements of stars, planets, and other celestial bodies on a dome-shaped surface using a projection system
129. uned optimism	adj.	having no limits or restrictions; limitless; boundless
130. comve viewpoint	adj.	relating to the comparison of different things or groups; denoting a degree of difference or comparison between two or more things; characterized by comparison or contrast
131. ext a great talent	<i>v</i> .	to show something in public for people to enjoy or to provide them with information
132. a diI watch	adj.	processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet
133. a meass endeavor	adj.	having no meaning, direction, or purpose
134. tic battle	adj.	of or having a great size, power, or influence; of or relating to Titanium (= a light, strong grey, lustrous, corrosion-resistant metallic element)

ANSWERS: 125. cosmology, 126. bang, 127. infinite, 128. planetarium, 129. unbounded, 130. comparative, 131. exhibit, 132. digital, 133. meaningless, 134. titanic

an area of a city in which members of a 135. gh o apartments n. particular group, typically an ethnic minority, usually live in poverty and with a high population density 136. business sp\_\_\_e a round object or geometric shape that n. is three-dimensional and symmetrical around a central point; a particular aspect or scope of life or activity adj. showing courage or fearlessness in the 137. br\_\_e decision face of danger, difficulty, or adversity a long journey, especially by sea or in 138. a vo\_\_\_e of discovery space to catch a person or an animal and 139. ca\_\_\_e a glimpse confine them in an area which they cannot escape adj. showing courage or fearlessness in the 140. br\_\_e soldier face of danger, difficulty, or adversity to leave by running away, especially out 141. f\_\_e abroad ν. of fear or danger 142. en\_\_\_\_er a storm to face something, particularly ν. something unpleasant or difficult, while attempting to do something else; to meet, especially unexpectedly adj. far away in space, time, or where you 143. a di t memory are; far apart in relevance, relationship, or kinship

ANSWERS: 135. ghetto, 136. sphere, 137. brave, 138. voyage, 139. capture, 140. brave, 141. flee, 142. encounter, 143. distant, 144. atmosphere

the mass of air that surrounds the

place, situation, or creative work

Earth; the pervading tone or mood of a

144. a convivial atm re

145. 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.
146. use one thing consly	adv.	without being interrupted or paused; repeatedly
147. business hon	n.	the line at which the earth's surface and the sky appear to meet; the range of interest or activity that can be anticipated
148. concert afow	n.	a period of time following an event or experience during which a feeling of pleasure, satisfaction, or contentment persists; a lingering glow or light that remains after an object has disappeared from view

ANSWERS: 145. satellite, 146. continuously, 147. horizon, 148. afterglow

# **Session 3: Fill in the Blanks**

1.	John Whitney was a computer animation
n.	inventor; explorer; someone who is among the first to achieve something
2.	We must a new system to streamline our workflow and increase efficiency.
v.	to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
3.	The of the earthquake was measured at 7.8 on the Richter scale.
n.	the extent, level, importance, or amount of something
4.	The project's made it difficult for the team to complete it on time.
n.	the state or quality of being complicated or intricate and difficult to understand
5.	I found an old of my grandparents from their wedding day.
n.	a picture or image that is produced by a camera; a visual representation or record of a person, object, or scene that has been captured electronically or on film
6.	The ship sank on its maiden voyage.
adj	of or having a great size, power, or influence; of or relating to Titanium (= a light, strong grey, lustrous, corrosion-resistant metallic element)
7.	Many employers hire trainees to train as managers.
n.	a person who has a first degree from university or college; (verb) to complete the first course of university or college and get a degree
	SWERS: 1. pioneer, 2. develop, 3. magnitude, 4. complexity, 5. photograph, 6. nic, 7. graduate

8.	My father tried to mathematics into my head since childhood.
ν.	to hit or cause to hit something in a way that makes a loud noise
9.	Generally speaking, the child is innately to learn a language.
v.	to put things or people in a particular manner or position; to incline someone towards a specific activity or mood; throw or cast away
10.	The Kepler-186f is located 500 light-years from Earth and is believed to be habitable.
n.	a planet that orbits a star outside of the solar system
11.	We should several hypotheses to discuss the matter.
<i>v</i> .	to suggest or accept something as fact or as a basis for argument or consideration
12.	Mercury is the closest to the sun.
n.	any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
13.	The human-crewed successfully landed on the moon, fulfilling its mission.
n.	a vehicle designed to travel through space, typically carrying astronauts or scientific instruments
14.	Due to the road construction, we had to our course to get to the restaurant.
v.	to change the course or direction of something, often away from a specific path or target; to entertain or amuse someone, often to distract them from a problem or concern; to appropriate something for a different purpose
	SWERS: 8. bang, 9. disposed, 10. exoplanet, 11. posit, 12. planet, 13. spacecraft divert

15. I need to finish this report by tonight, so I'll be working on my all	day.
<ul> <li>a portable computer that is small enough to be carried around easily around your lap</li> </ul>	nd used
16. It is a basic instinct to from a dangerous situation.	
v. to leave by running away, especially out of fear or danger	
17. Other technology industries similarly explosive growth.	
v. to show something in public for people to enjoy or to provide them with information	
18. An data plan is a popular option for heavy internet users.	
adj. without any limits or restrictions	
19. They donated large sums of money for the development of	
n. all people living on the earth; the quality or state of being human rather animal, a machine, etc.	than an
20. The rocket engine is used to put the satellite into	
n. the path of an object around a celestial body, especially a planet, star, under the influence of gravity; (of medicine) the bony cavity in the skull houses the eyeball and its associated structures, like muscles, nerves, blood vessels	that
21. The era of the industrial revolution was a crucial of history.	
n. any stage in a series of events, change, or development	
22. We couldn't see him through the of smoke.	
n. atmospheric moisture, dust, or smoke that makes it less clear; a state of confusion caused by lack of clarity	of mental
ANSWERS: 15. laptop, 16. flee, 17. exhibit, 18. unlimited, 19. humanity, 20. phase, 22. haze	orbit, 21.

ANSWERS: 23. realm, 24. comparative, 25. digital, 26. metaphors, 27. planetarium's, 28. stud, 29. context

situation, or statement and that give it meaning

30.	The had received a mild snowfall the previous week.
n.	a long depression on the surface of the land, which typically contains a river
31.	The company has shown an excellent growth over the years.
n.	the curved path followed by an object moving through space
32.	The smell of fresh trees filled the air at the Christmas tree farm.
n.	a type of tall evergreen tree that is native to the northern hemisphere, with needle-like leaves and cones that stand upright on the branches
33.	panels have greatly improved not only in performance but also in durability.
adj	of, from, or relating to the sun
34.	As the sun set, the colors of the sky merged with the creating a beautiful orange and pink hue.
n.	the line at which the earth's surface and the sky appear to meet; the range of interest or activity that can be anticipated
35.	I was able to the moment on film.
ν.	to catch a person or an animal and confine them in an area which they cannot escape
36.	The artist's creativity was constantly pushing boundaries with his work.
adj	having no limits or restrictions; limitless; boundless
37.	The coffee producers in countries are at the sharp end of fluctuations in price.
adj	of or relating to or situated in the area south of the Sahara Desert
	SWERS: 30. valley, 31. trajectory, 32. fir, 33. Solar, 34. horizon, 35. capture, 36. bounded, 37. sub-Saharan

38.	I need to my car regularly to prevent any major mechanical issues.					
<i>v</i> .	to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true					
39.	The sun set over the crest of hills.					
adj	far away in space, time, or where you are; far apart in relevance, relationship, or kinship					
40.	The residents of the faced poverty and discrimination.					
n.	an area of a city in which members of a particular group, typically an ethnic minority, usually live in poverty and with a high population density					
41.	The online process was quick and easy to complete.					
n.	the process of recording or enrolling for a particular course or event; the action or process of officially recording or enrolling something, such as a name or trademark					
42.	This pie represents our market share.					
n.	a visual display of information such as a diagram, lists of figures, etc.; a map designed to assist navigation by air or sea					
43.	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					
44.	Launching an artificial contributed to the technological development of our country.					
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.					
	ANSWERS: 38. maintain, 39. distant, 40. ghetto, 41. registration, 42. chart, 43. atmosphere, 44. satellite					

45. T	he company specializes in both hardware and
	a set of computer programs and associated documentation and data for doing particular computational jobs
46. T	he world showed me the locations of all the countries.
	a book of maps or charts; a figure in Greek mythology who bore the weight of the world on his shoulders
	he new video game has an storyline that allows players to make hoices that affect the game's outcome.
adj.	acting reciprocally; mutually responsive
48	a society is an organism.
adv.	relating to the essential features or concepts of anything
49. T	he navy ships of defeated nations.
	to put someone in prison, especially for political or military reasons; (noun) a student or trainee who works, sometimes for free, to get work experience or to fulfill qualification criteria
	he astronaut trained for years before embarking on her to the ternational Space Station.
n.	a long journey, especially by sea or in space
	his experiment's results are because the other conditions are not lentical.
adj.	having no meaning, direction, or purpose
	hey are planning to the house after the fire. to build again or anew
	WERS: 45. software, 46. atlas, 47. interactive, 48. Essentially, 49. interned, 50. ge, 51. meaningless, 52. rebuild

adv. forward, outward, or onward in location, direction, or progress; into view or consideration; with confidence, boldness, or in the open

59. I pushed \_\_\_\_\_ with my new project, even though it would take much hard work.

ANSWERS: 53. rolled, 54. microwave, 55. obvious, 56. basis, 57. mercury, 58. continuously, 59. forth

60.	I'm prepared to challenges throughout this adventure.
v.	to face something, particularly something unpleasant or difficult, while attempting to do something else; to meet, especially unexpectedly
61.	The of the sunset was a beautiful end to a long day.
n.	a period of time following an event or experience during which a feeling of pleasure, satisfaction, or contentment persists; a lingering glow or light that remains after an object has disappeared from view
62.	evolved from people's philosophical questions about the natural world.
n.	the scientific study of the nature and origin of the universe
63.	I claim on my that it is true.
n.	high regard or great respect for someone; the quality of having and doing based on a keen sense of morality; (verb) to show respect towards someone
64.	My home is easily from the shore.
adj	capable of being seen; or open to easy view
65.	The cathedral soared high above, its stained-glass windows casting colorful light on the altar below.
n.	a rounded vault forming the roof of a building or structure, typically with a circular base
66.	The engineer solved the complex problem with a simple yet effective solution.
adv	in a clever, inventive, or resourceful manner; with great skill, creativity, or ingenuity
	SWERS: 60. encounter, 61. afterglow, 62. Cosmology, 63. honor, 64. visible, 65. ne, 66. ingeniously

67. The firefighter rescued the family from the burning building.
adj. showing courage or fearlessness in the face of danger, difficulty, or adversity
68. The Milky Way has numerous water-bearing planets.
n. an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity
69. The of the earth is divided into several layers including the crust, mantle and core.
<ul> <li>a round object or geometric shape that is three-dimensional and symmetrical around a central point; a particular aspect or scope of life or activity</li> </ul>
70. The is about 13.8 billion years old.
<ul> <li>everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy</li> </ul>
71. Eyeless fish in dark caves.
$\nu$ . to develop gradually, or to cause the development of something or someone gradually
72. She agreed to with him in creating new artwork.
v. to work with someone else to produce or achieve something
73. The company's hiring criteria emphasize personality, not a person's
n. the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem
74. The battle had an impact on the nation.
adj. unlimited or very great; impossible to measure
ANSWERS: 67. brave, 68. galaxy, 69. sphere, 70. universe, 71. evolved, 72. collaborate, 73. background, 74. infinite

	Vocab-Builder Ref from	"Carter Emmart: A 3	D atlas of the univers	se   TED Talk" (74 words)	
ANSWER	S·				
MOVVEIX	<b>O</b> .				