# **Englist.me**

# Vocabulary Builder Reference from...

Wanda Diaz Merced: How a blind astronomer found a way to hear the stars | TED Talk https://www.ted.com/talks/wanda\_diaz\_merced\_how\_a\_blind\_astronomer\_found\_a\_way\_to\_hear\_the\_stars



# All Words

#### **IMPORTANT**

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# **Session 1: Word List**

mass

 a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together

synonym: abundance, crowd, mob

(1) a mass of molten rock, (2) critical mass

The **mass** of people who do not own property is politically impotent.

exhausted

adj. extremely tired

synonym: drowsy, depleted, fatigued

(1) the **exhausted** food sources, (2) **exhausted** parents The **exhausted** runner fell to the ground and gasped.

fuel

 a substance that is typically burned to generate heat or energy

synonym: energy, power, gas

(1) biomass fuel, (2) smokeless fuel

The **fuel** scarcity most severely impacted the manufacturing sector

transform

v. to change in outward structure or looks;

synonym: alter, convert, change

(1) **transform** an education system, (2) **transform** heat into power

My father's death **transformed** my life completely.

#### supernova

 a powerful and luminous explosion that occurs in some stars, resulting in an extremely bright, short-lived object that later fades into a supernova remnant

synonym: explosion, detonation, blast

(1) extragalactic **supernova**, (2) **supernova** remnant The **supernova** explosion created a bright new star in the night sky.

### process

n. a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

synonym: procedure, method, system

(1) **process** improvement, (2) decision-making **process** The **process** for applying for a visa can be lengthy and complicated.

#### release

- v. to set free or allow to escape from confinement synonym: free, let go, discharge
- (1) **release** a prisoner, (2) **release** CO2 into the air The animal rights group worked to **release** the dolphins back into the wild.

#### 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.

#### outshine

v. to be more brilliant, striking, or impressive than; to outdo or excel

synonym: surpass, excel, outdo

(1) <b>outshine</b> his teacher,	(2) <b>outshine</b> expectations
The new singer outshined	d all the others on stage with her
powerful voice.	

### 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.

#### emit

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

synonym: give off, radiate, expel

(1) **emit** a gamma ray, (2) **emit** air pollution During the unloading, the container box **emits** a clicking sound.

#### 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.

#### extreme

adj. very great in amount or degree

synonym: farthermost, outermost, fierce

(1) extreme sports, (2) extreme weather events

Solar gravity creates extreme pressures and temperatures.

#### gamma

 the third letter of the Greek alphabet; a type of radiation having the shortest wavelength and highest energy of electromagnetic waves

synonym: ray, radiation, emission

(1) gamma radiation, (2) gamma particles

**Gamma** rays are a type of high-energy radiation that can be harmful to living organisms.

ray

- n. a narrow line of light, heat, or another form of energysynonym: beam, light, glimmer
- opaque to X- rays,
   effect of cosmic rays
   Gamma rays penetrate body tissues and cause cell damage.

#### interior

 the inside or inner part of something; the space within the walls of a building

synonym: inner, inside, internal

(1) **interior** decoration, (2) plenty of **interior** space The painter focused on the moody **interiors** of abandoned buildings in his work.

collapse

v. to fall down or give way suddenly, often after breaking apart

synonym: tumble, spill, bankruptcy

- (1) the stock market **collapsed**, (2) ready to **collapse**The roof finally **collapsed** after three days and three nights of heavy snowfall.
- v. to decay, or cause something to decay, naturally and gradually

synonym: perish, decay, corrode

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

Please refrigerate the meat, or it will rot.

skate

rot

n. a type of footwear that has a blade attached to its sole for skating on ice or other hard surfaces; an activity or sport that involves gliding on skates on ice or other hard surfaces

synonym: blade, runner, sled

(1) skate park, (2) roller skate

She has been practicing an ice **skate** routine for months

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.

# drag

to pull or haul with force

synonym: haul, pull, draw

(1) drag a chair over, (2) drag a team down

He **dragged** the heavy suitcase behind him as he walked.

#### rotation

the action or process of moving in a circle around an axis or center

synonym: revolution, spin, turning

(1) job rotation, (2) a period of rotation

The rotation of the Earth causes day and night.

#### transfer

 to move, pass, or change from one person, place, or situation to another

synonym: move, relocate, shift

(1) transfer a file, (2) transfer power

She **transferred** the money from her savings account to her checking account.

#### emission

- n. the act of production or sending out gas, heat, light, etc. synonym: emanation, radiation, discharge
- (1) global **emissions** of greenhouse gases, (2) the **emission** of light

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

### magnet

 an object or substance that can attract certain materials, such as iron or steel

synonym: magnetite, lodestone, attracting substance

(1) magnet attraction, (2) permanent magnet

The MRI machine uses **magnets** to produce images of the body's internal organs.

#### trillion

- n. the number 1,000,000,000,000; a million million
- (1) **trillion** cubic feet, (2) many **trillions** of dollars One light year is nearly 6 **trillion** miles.

#### energetic

adj. possessing or exerting or displaying energysynonym: active, animated, lively

(1) energetic density, (2) energetic dog

This process caused an **energetic** chemical reaction.

#### astronomer

*n.* a physicist who studies astronomy

synonym: stargazer, cosmologist, astrophysicist

(1) amateur astronomer, (2) solar astronomer

This question has fascinated solar **astronomers** for decades.

#### observe

v. to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion

synonym: watch, monitor, scrutinize

(1) **observe** a tradition, (2) **observe** wildlife

It is important to **observe** safety procedures in the workplace to prevent accidents.

#### detect

rely

v. to find or recognize something, especially something difficult to see, hear, etc.

synonym: catch, observe, notice

- (1) **detect** a bad event, (2) **detect** smuggling across borders. The security camera has **detected** four intruders.
- 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.

# itsy-bitsy

adj. very small or tiny

synonym: tiny, small, miniature

(1) itsy-bitsy spider, (2) itsy-bitsy detail

Scientists use powerful microscopes to study itsy-bitsy

### particles.

# electromagnetic

- adj. of or relating to the magnetism produced by electric charge in motion
- (1) **electromagnetic** radiation, (2) **electromagnetic** properties

His hypothesis concerns the role of an **electromagnetic** field in human health.

# spectrum

 an ordered array of colors into which a light beam can be split

synonym: range, scale, spread

(1) a broad **spectrum** of opinion, (2) infrared **spectrum** This device displayed the speech **spectrum** spectrographically.

#### visible

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

(1) visible stars, (2) visible by X-rayMy home is easily visible from the shore.

# plot

 a secret plan or scheme to achieve a specific goal; the plan or main story of a literary work; (verb) to plan secretly, usually something illegal

synonym: scheme, plan, design

(1) **plot** twist, (2) **plot** a revolution

The **plot** of the novel centers around a group of friends who uncover a conspiracy to control the world's water supply.

# curve

 a bend or angle in a line or surface that deviates from a straight or flat path; a gradual or smooth change in direction or shape

synonym: bend, arc, turn

(1) learning curve, (2) yield curve

The **curve** in the road was so sharp that I had to slow down to navigate it safely.

#### intense

adj. (especially of a feeling) very strong; extremely sharp or severe

synonym: extreme, fierce, harsh

(1) intense heat, (2) develop intense itching

That statement by the prime minister drew **intense** international criticism.

# sight

n. the ability to see; anything that is seen

synonym: vision, spectacle, view

(1) an unexpected sight, (2) dull sight

Many famous **sights** are within walking distance.

# interpret

v. to explain or assign the meaning of information, actions, etc.

synonym: decode, decipher, analyze

(1) **interpret** a graph, (2) **interpret** the question

Different people might **interpret** this news differently.

#### extended

adj. longer than usual or anticipated

synonym: extensive, prolonged, elongated

(1) extended vacation, (2) extended payment

The extended airport runways may accommodate larger jets.

# opportune

adj. suitable or happening at a time that is suitable or convenient for a particular purpose

synonym: suitable, timely, practical

(1) opportune occasion, (2) an opportune remark

The phone rang at the most **opportune** time.

# physics

- n. the science of matter and energy and their interactions
- (1) nuclear **physics**, (2) laws of **physics**

He studied the **physics** of radiation.

#### transition

*n.* the process or period of changing from one state or circumstance to another

synonym: change, growth, shift

(1) **transition** phase, (2) ensure a smooth **transition**The nation's healthcare system is in **transition** at the moment.

# professional

adj. having or showing the skill appropriate to a particular job; competent or skillful

synonym: skilled, competent, accomplished

(1) **professional** athlete, (2) certified **professional** secretary

He has a **professional** demeanor and always presents himself in a polished manner.

#### scrutinize

- v. to examine carefully and critically; to inspect closely synonym: examine, inspect, audit
- (1) **scrutinize** her belongings, (2) **scrutinize** a suspect The detective **scrutinized** the evidence for any clues.

# astrophysics

- n. the branch of physics concerned with the study of the properties and behavior of celestial objects and the physical processes that govern the behavior and evolution of the universe
- (1) **astrophysics** research, (2) neutrino **astrophysics**He was studying **astrophysics** in an attempt to understand the origins of the universe.

# spacious

adj. (especially of a room or building) very large and plenty of space

synonym: big, roomy, ample

(1) a **spacious** room, (2) **spacious** country They gazed blankly at the **spacious** skies.

#### excitement

- n. a feeling of great enthusiasm and eagernesssynonym: thrill, exhilaration, incitement
- (1) the **excitement** in the business world, (2) aesthetic **excitement**

The **excitement** of the upcoming concert was palpable

among the crowd.

#### detection

 the act of discovering or identifying the presence of something

synonym: discovery, identification, recognition

(1) **detection** by the security software, (2) importance of early **detection** 

This smartphone has a collision **detection** function.

#### 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.

#### celestial

adj. relating to the sky or the heavens; of or like the sky or the heavens

*synonym*: heavenly, divine, ethereal

(1) celestial bliss, (2) celestial navigation

The celestial bodies in the night sky were beautiful to behold.

# suddenly

adv. quickly and unexpectedly

synonym: abruptly, unexpectedly, unawares

(1) **suddenly** attacked by an enemy, (2) die **suddenly** Who answers **suddenly** knows little.

#### convert

v. to have a talk with someone; (adjective) reversed in order, relation, or action

synonym: alter, remake, transform

(1) **convert** fat into energy, (2) **convert** base 10 to base 16 I want to **convert** my sadness into strength.

#### visual

adj. relating to seeing or sight

synonym: optical, graphical, visible

(1) visual navigation, (2) field of visual arts

The building makes a remarkable **visual** impact.

#### 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.

#### translate

- v. to convert or change words into another language synonym: convert, transcribe, render
- (1) **translate** a document into English, (2) **translate** the emotion to a movement

**Translate** the text from Italian into English.

#### achieve

v. to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do

synonym: accomplish, attain, reach

(1) achieve success, (2) achieve milestonesI will work hard to achieve my goals and realize my dreams.

### 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.

# 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.

# beep

v. to make a short, high-pitched sound, typically as a signal or warning

synonym: bleep, honk, buzz

(1) **beep** out a warning, (2) **beep** the horn

The timer **beeped**, reminding me that the cake was ready to come out of the oven.

# pitch

n. the property of sound that varies with variation in the frequency of vibration; the degree of a slope, especially of a roof; short presentation for selling or sharing something

synonym: angle, gradient, slope

(1) make a **pitch** for a new product, (2) a low- **pitched** sound

Her voice gradually increased in pitch.

#### examine

v. to study or consider a person or object attentively and thoroughly to learn something about them

synonym: study, probe, analyze

(1) **examine** the data studiously, (2) **examine** the issue Initially, we must **examine** all project-related expenses.

# frequency

 an ordered array of colors into which a light beam can be split

*synonym*: recurrence, repetition, regularity

(1) frequency band, (2) high frequency

The oscillator hunts for the correct frequency.

#### bass

 the lowest part in polyphonic music; a type of fish belonging to the large order Perciformes, or perch-like fishes

*synonym*: low-pitch, resonance

(1) bass guitar, (2) bass fisherman

The bass in the music was so deep that it vibrated the floor.

#### zoom

v. to move along very quickly; (noun) the act of rising upward into the air

synonym: move quickly, dive, buzz

(1) **zoom** in on a photo, (2) **zoom** lens

He **zoomed** back in time to the soccer game.

#### resonance

 a deep, full, or reverberating sound or tone; a quality or feeling of a particular emotional or mental vibration or significance; a mutual or sympathetic connection or correspondence between two things

synonym: echo, vibration, reverberation

(1) **resonance** frequency, (2) harmonic **resonance** The singer's voice filled the auditorium with beautiful **resonance**.

# characteristic

 a typical feature or quality that can identify, tell apart, or describe something or somebody

synonym: feature, quality, attribute

(1) stripes **characteristic** of the zebra, (2) my friend's **characteristic** laugh

Bananas have their characteristic taste and odor.

#### electrical

adj. relating to electricity

(1) an **electrical** storm, (2) degree in **electrical** engineering Actuators convert **electrical** pulses into motion.

#### volume

 n. the amount of space occupied by an object or substance; the magnitude of sound

synonym: capacity, amount, intensity

(1) volume of work, (2) high volume

This container has a **volume** of 10 cubic meters.

#### indicate

v. to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly

synonym: hint, suggest, show

(1) indicate a preference, (2) indicate an error

The data **indicates** that the company's profits have steadily

increased over the past quarter.

# humming

adj. producing a continuous, low, vibrating sound like that of the bee

*synonym*: buzzing, droning, vibrating

(1) humming sound, (2) humming bird

The **humming** of the bees filled the air as she walked through the garden.

#### whistle

to make a high-pitched sound by forcing breath through a small opening, usually with the lips or fingers; (noun) a piece of equipment that forces air or steam against an edge or into a cavity and so produces a loud shrill sound

*synonym*: sound, honk, tweet

(1) whistle a tune, (2) whistle for help

The employee decided to **whistle-blow** on the company's illegal activities.

# exchange

v. to give something and receive something else in return, often with the implication that the items being traded are of equal or comparable value; (noun) the act of giving or taking something in return for something else; a place or system where goods or services can be bought, sold, or traded

synonym: trade, swap, interchange

(1) **exchange** rate, (2) **exchange** a few friendly words My sister and I frequently **exchange** books, as we love reading.

particle

 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.

#### excite

v. to make someone feel suddenly enthusiastic or eager synonym: thrill, exhilarate, animate

(1) **excite** the crowd, (2) **excite** rebellion The news of her promotion **excited** her.

#### transmit

- v. to send or forward an electronic signal; to pass something from one person or thing to anothersynonym: convey, share, dispatch
- (1) **transmit** the disease, (2) **transmit** information

  Parents often **transmit** their characteristics to their children.

#### distribute

v. to give something to a large number of individuals, or to spread or furnish something

synonym: broadcast, disperse, hand out

(1) **distribute** wealth evenly, (2) **distribute** video content His estate was **distributed** to his sons.

#### determinant

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

synonym: cause, factor, element

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

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

#### dimension

 a measurable extent of a particular kind, such as width, height, or length

synonym: extent, measurement, size

(1) new **dimension**, (2) the crosswise **dimension**Overall **dimensions** are approximately 400x200mm.

#### massive

adj. enormous amount; very heavy and solidsynonym: enormous, giant, immense

(1) massive amounts, (2) massive stars

The recent economic downturn has resulted in **massive** layoffs.

#### outflow

n. the leakage of fluid from a container; a natural flow of groundwater

synonym: discharge, outpouring, gush

(1) **outflow** fluid, (2) **outflow** of capital

After the valves were closed, the **outflow** halted.

# explode

v. to burst or break open violently and noisily; to cause something to burst or break open

synonym: detonate, blast, rupture

(1) **explode** in anger, (2) **explode** in popularity

The old building **exploded** in a fiery inferno.

#### associate

v. to mentally connect someone or something with someone or something else

synonym: tie in, link, consociate

(1) **associate** alcohol with gambling, (2) **associate** with people widely

The majority of consumers associate this brand with quality.

# adjoin

v. to be next to or border upon; to be adjacent or connected to something

*synonym*: adjoin, neighbor, border

(1) adjoin two rooms, (2) adjoin the garden

The bookstore **adjoins** the coffee shop, making it a perfect spot to relax and read.

# display

 to exhibit or show something to others, often to attract attention or demonstrate its features, properties, or value

*synonym*: show, exhibit, present

(1) display merchandise, (2) display artwork

We need to **display** our products in an attractive way to attract customers.

# simultaneously

adv. at the same time

synonym: concurrently, coincidently, together

(1) **simultaneously** affected, (2) take several inputs

# simultaneously

Two students answered the teacher's question **simultaneously**.

### analyze

 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.

# telescope

- a device like a tube in shape containing lenses used to magnify and observe distant objects
- (1) a binocular **telescope**, (2) look through a **telescope** This facility has the largest astronomical **telescope** in the country.

# experiment

 the scientific test conducted to observe what happens and gain new knowledge

synonym: experimentation, investigation

(1) **experiment** design, (2) series of **experiments** His **experiments** showed highly positive results.

#### demonstrate

v. to display something or give an exhibition to an interested audience

synonym: show, illustrate, display

(1) **demonstrate** a difference, (2) **demonstrate** mastery How can you **demonstrate** that the earth is a sphere?

### astronomy

 the scientific study of objects and matter outside the Earth's atmosphere, especially the positions, motions, and evolution of celestial bodies

synonym: astrophysics, stargazing, cosmology

(1) **astronomy** science, (2) a branch of **astronomy**He had a deep passion for extragalactic **astronomy** and

spent hours observing the night sky.

#### transformation

*n*. a complete change in form, nature, or appearance of someone or something

*synonym*: change, conversion, renewal

(1) the **transformation** of a tadpole into a frog, (2) cast a **transformation** spell

Understanding unitary **transformations** of a normal matrix require considerable mathematical sophistication.

# improvisation

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

#### heaven

n. (of various religious and mythological traditions) a place or state of existence considered to be the abode of the divine, the afterlife, or a higher realm of being; a state of great happiness, contentment, or beauty

synonym: paradise, nirvana, utopia

(1) ascend to **heaven**, (2) **heaven** on earth

He felt like **heaven** when he tasted the delicious chocolate cake.

# spirit

n. the part of a person which is the seat of their mind, feelings, and character rather than their physical body; the general atmosphere of a place or situation and the effect that it has on people

synonym: soul, attitude, enthusiasm

- (1) **spirit** and the letter of the law, (2) an indomitable **spirit** Despite their tragic loss, the family is showing great **spirit**.
- v. to raise something to a higher position or level; to pick up something or somebody and move them to a different position

lift

synonym: raise, elevate, move up

(1) **lift** sagging skin, (2) **lift** a ban on alcohol The drought **lifted** the prices of grain globally.

#### innovate

- v. to introduce new methods, ideas, or products synonym: bring in, introduce, found
- (1) **innovate** a new method, (2) **innovate** the quality of his life

Companies developing self-driving cars consistently **innovate** the emerging technologies.

# regain

v. to get something back or recover something after it has been lost or taken away

synonym: recover, reclaim, retrieve

(1) **regain** our reputation, (2) **regain** my health After years of hard work, he finally **regained** his financial stability.

# systemic

- adj. affecting or related to the whole of something, especially the human body or a society
- (1) the **systemic** arteries, (2) **systemic** reforms of the organization

This vaccine causes mild systemic side effects.

# 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.

# disability

 a physical or mental condition that makes it difficult for someone to do some things that other people do

synonym: impairment, disadvantage, restriction

(1) a **disability** pension, (2) a learning **disability**Listening to music at a high volume may lead to a hearing **disability**.

#### excommunicate

 to officially exclude someone from membership in a church or religious community; to expel or banish someone from a group or society

synonym: expel, ostracize, banish

- (1) **excommunicate** the priest from the church,
- (2) **excommunicate** a sinner

The church leaders decided to **excommunicate** the member who had committed a serious offense.

# empower

- v. to give someone the power or authority to do something synonym: authorize, endow, entitle
- (1) **empower** my life, (2) **empower** the secretary to do the same

The company **empowered** employees to buy low-price items without approval to achieve efficient purchasing.

#### flourish

- v. to grow or develop vigorously or successfully synonym: boom, advance, succeed
- flourish economically, (2) flourish worldwide
   The Ottoman Empire flourished for over five centuries.

# talent

- n. a natural ability to be good at something; someone who has a natural ability to be good at somethingsynonym: endowment, aptitude, capability
- (1) a person of diverse **talents**, (2) raw **talent**Numerous great professional sports **talents** have come from this city.

#### barrier

 a fence or other obstruction that makes it hard to move or get in; any condition that makes it difficult to make progress or to achieve an objective

synonym: border, barricade, fence

(1) cost **barrier**, (2) information **barrier** 

The police placed a **barrier** across the street to halt traffic.

fulfill

v. to meet the requirements or expectations; to achieve or realize

*synonym*: satisfy, complete, accomplish

(1) **fulfill** a contract, (2) **fulfill** a lifetime dream It was the first time for her, but she **fulfilled** the role of Priest.

prosper

v. to be successful or thriving, especially financially; to grow and develop well; to flourish

synonym: thrive, flourish, succeed

(1) **prosper** in the long run, (2) **prosper** as a trading hub With careful planning and hard work, she was able to **prosper** in her new business venture.

contribute

- v. to give something, especially money or goods, to provide or achieve something together with other people synonym: donate, devote, commit
- (1) contribute a large sum of money to the fund,
- (2) contribute to society

Government workers cannot **contribute** to political campaigns.

perception

 a belief, opinion, or image you have based on how you regard, understand, or interpret something; the ability to see, hear, or notice something through the senses

synonym: understanding, idea, awareness

(1) keen **perception**, (2) **perception** of a stimulus He is a man admired for the depth of his **perception**.

technique

a particular way or art of doing something that needs skill

synonym: approach, procedure, strategy

(1) a **technique** in martial arts, (2) the **technique** applied to construction

Jockey's superior **technique** brought him victory.

#### relevance

 the state or degree of being closely connected or appropriate to the matter at hand

*synonym*: pertinence, applicability, connection

(1) have no relevance, (2) relevance category

The **relevance** of this information to the current situation needs to be investigated.

#### blind

adj. unable to see; unable or unwilling to perceive or understand the true nature of something

*synonym*: sightless, unseeing, random

(1) **blind** to the beauties, (2) **blind** spot

She was nearly **blind** due to severe diabetes.

#### astronomical

 adj. relating to astronomy or the study of celestial bodies and phenomena; very large or immense in scale or magnitude

synonym: huge, vast, enormous

(1) **astronomical** observation, (2) **astronomical** numbers The cost of the new equipment was **astronomical** and beyond the company's budget.

# observatory

- *n.* a building designed and equipped to observe the planets, the stars, the weather, etc.
- (1) space **observatory**, (2) a meteorological **observatory** That astronomical **observatory** stands at the top of the mountain.

# eject

v. to force someone to put out or leave a particular place or position

synonym: discharge, expel, emit

(1) **eject** a player from a game, (2) **eject** huge amounts of pollutant

Our immune system can eject disease germs from the body.

#### coronal

- adj. of or relating to the corona (= the outermost region of the sun's atmosphere); of or relating to or similar to the crown (= traditional head adornment, or hat worn by the reigning monarch)
- (1) solar **coronal** plasma, (2) the **coronal** part of a natural tooth

Several satellites failed due to a solar wind caused by **coronal** mass ejections.

# strategy

n. a detailed plan of action designed to achieve a long-term or overall goal.

synonym: approach, procedure, scenario

(1) military **strategy**, (2) develop a **strategy** 

Our plan includes a comprehensive marketing **strategy**.

#### accommodate

- v. to provide someone with a place to live or to be stored in; to make fit for or to change to suit a new purposesynonym: house, rent, adjust
- (1) **accommodate** a person with money, (2) **accommodate** these needs

This large SUV accommodates eight people.

#### humble

adj. having or showing a modest or low estimate of one's quality or importance

synonym: modest, unpretentious, abject

(1) a humble cottage, (2) humble opinion

The nobler, the more **humble**.

# belong

 to be the property of someone or something; to be a member or part of a group; to be in the proper or appropriate place

*synonym*: fit, be appropriate, be suitable

(1) **belong** to different species, (2) **belong** to a group All the books in this section **belong** to the library's rare collection and must be handled carefully.

# participate

v. to take part in something

*synonym*: take part, partake, enter

(1) **participate** fully in conversation, (2) **participate** in the program

The majority of students actively **participated** in the college's intramural sports program.

#### sever

 to break or separate something by cutting, especially suddenly and forcibly

synonym: cut apart, separate, detach

sever a rope, (2) sever a positive relationship
 severed a branch from a tree quickly.

# encourage

v. to give someone support, confidence, or hope; to persuade someone to do or continue to do something by making it easier for them and making them believe it is a good thing to do

synonym: facilitate, persuade, stimulate

(1) **encourage** a sense of affinity, (2) **encourage** antisocial behavior

They **encouraged** customers with a premium for loyal patronage.

# discovery

 the act or process of finding information, a place, or an object, or learning about something that was previously not known

synonym: finding, uncovering, detection

(1) a scientific **discovery**, (2) the great **discovery** of the century

Her research team made an important discovery.

# **Session 2: Spelling**

1. biomass f\_\_l

2. sp t and the letter of the law

3. wh e for help

4. se\_\_r a rope

5. ex\_\_\_\_ed parents

6. ou\_\_\_\_w fluid

7. have no re\_\_\_\_ce

8. tre\_\_\_us amount

9. I t sagging skin

- a substance that is typically burned to generate heat or energy
- n. the part of a person which is the seat of their mind, feelings, and character rather than their physical body; the general atmosphere of a place or situation and the effect that it has on people
- v. to make a high-pitched sound by forcing breath through a small opening, usually with the lips or fingers; (noun) a piece of equipment that forces air or steam against an edge or into a cavity and so produces a loud shrill sound

v. to break or separate something by cutting, especially suddenly and forcibly

adj. extremely tired

- n. the leakage of fluid from a container; a natural flow of groundwater
- n. the state or degree of being closely connected or appropriate to the matter at hand
- adj. very great in degree or extent or amount or impact; extremely good
- v. to raise something to a higher position or level; to pick up something or somebody and move them to a different position

ANSWERS: 1. fuel, 2. spirit, 3. whistle, 4. sever, 5. exhausted, 6. outflow, 7. relevance, 8. tremendous, 9. lift

22. em\_\_\_r my life v. to give someone the power or authority to do something

21. ex\_\_\_e weather events

something without preparation

adj. very great in amount or degree

ANSWERS: 10. humble, 11. bass, 12. blind, 13. sight, 14. tremendous, 15. participate, 16. translate, 17. suddenly, 18. trillion, 19. titanic, 20. improvisation, 21. extreme, 22. empower

23. par\_\_\_\_te in the program to take part in something ν. 24. acc\_\_\_\_te these needs to provide someone with a place to live ν. or to be stored in: to make fit for or to change to suit a new purpose a device like a tube in shape containing 25. look through a te pe n. lenses used to magnify and observe distant objects to pull or haul with force 26. d g a chair over ν. 27. the exc\_\_\_\_nt in the business a feeling of great enthusiasm and n. world eagerness a small piece of something; a word or 28. charged pa\_\_\_\_le n. piece of a term with grammatical function but little or no significance a type of footwear that has a blade 29. roller sk\_\_e n. attached to its sole for skating on ice or other hard surfaces; an activity or sport that involves gliding on skates on ice or other hard surfaces the amount of space occupied by an 30. high vo e object or substance; the magnitude of sound the third letter of the Greek alphabet; a 31. ga a particles type of radiation having the shortest wavelength and highest energy of electromagnetic waves 32. ex\_\_\_e sports adj. very great in amount or degree a secret plan or scheme to achieve a 33. p\_\_t a revolution n. specific goal; the plan or main story of a literary work; (verb) to plan secretly,

ANSWERS: 23. participate, 24. accommodate, 25. telescope, 26. drag, 27. excitement, 28. particle, 29. skate, 30. volume, 31. gamma, 32. extreme, 33. plot

usually something illegal

ANSWERS: 34. detection, 35. astronomy, 36. beep, 37. discovery, 38. barrier, 39. transition, 40. flourish, 41. indicate, 42. transfer, 43. resonance

ANSWERS: 44. contribute, 45. transmit, 46. innovate, 47. collaborate, 48. transform, 49. pitch, 50. digital, 51. plot, 52. rot, 53. ray

adj. relating to seeing or sight

adj. longer than usual or anticipated

to burst or break open violently and ν. noisily; to cause something to burst or break open

ANSWERS: 54. frequency, 55. emission, 56. distribute, 57. relevance, 58. characteristic, 59. display, 60. rely, 61. eject, 62. itsy-bitsy, 63. drag, 64. visual, 65. extended, 66. explode

65. ex\_\_\_\_ed payment

66. ex\_\_\_e in anger

Vocab-Builder Ref from "Wanda Diaz Merced: How a blind astronomer found a way to hear the stars | TED Talk" (126 words)

ANSWERS: 67. supernova, 68. extended, 69. outshine, 70. fulfill, 71. discovery, 72. determinant, 73. develop, 74. explode, 75. dimension, 76. empower

77.	et a gamma ray	<i>v</i> .	to give off or send out something such as light, heat, sound, gas, etc.
78.	a period of roon	n.	the action or process of moving in a circle around an axis or center
79.	eletic properties	adj.	of or relating to the magnetism produced by electric charge in motion
80.	harmonic rece	n.	a deep, full, or reverberating sound or tone; a quality or feeling of a particular emotional or mental vibration or significance; a mutual or sympathetic connection or correspondence between two things
81.	enge a sense of affinity	<i>v</i> .	to give someone support, confidence, of hope; to persuade someone to do or continue to do something by making it easier for them and making them believe it is a good thing to do
82.	ser a positive relationship	<i>v</i> .	to break or separate something by cutting, especially suddenly and forcibly
83.	aste alcohol with gambling	v.	to mentally connect someone or something with someone or something else
84.	take several inputs simsly	adv.	at the same time
85.	inet the question	v.	to explain or assign the meaning of information, actions, etc.
86.	trrm heat into power	v.	to change in outward structure or looks
87.	a teue in martial arts	n.	a particular way or art of doing something that needs skill

ANSWERS: 77. emit, 78. rotation, 79. electromagnetic, 80. resonance, 81. encourage, 82. sever, 83. associate, 84. simultaneously, 85. interpret, 86. transform, 87. technique

- 88. en\_\_\_\_ic dog
- 89. an\_\_\_e a chemical compound
- 90. exp\_\_\_\_nt design
- 91. infrared sp\_\_\_um
- 92. critical m\_\_s
- 93. ex\_\_\_e the crowd
- 94. re\_\_\_e CO2 into the air
- 95. e\_\_t air pollution
- 96. the ex ed food sources
- 97. the sy\_\_\_\_ic arteries
- 98. en ge antisocial behavior
- 99. ascend to he n

- adj. possessing or exerting or displaying energy
- to think about in-depth and evaluate to discover essential features or meaning
- n. the scientific test conducted to observe what happens and gain new knowledge
- an ordered array of colors into which a light beam can be split
- a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together
- v. to make someone feel suddenly enthusiastic or eager
- v. to set free or allow to escape from confinement
- v. to give off or send out something such as light, heat, sound, gas, etc.
- adj. extremely tired
- adj. affecting or related to the whole of something, especially the human body or a society
- v. to give someone support, confidence, or hope; to persuade someone to do or continue to do something by making it easier for them and making them believe it is a good thing to do
- n. (of various religious and mythological traditions) a place or state of existence considered to be the abode of the divine, the afterlife, or a higher realm of being; a state of great happiness, contentment, or beauty

ANSWERS: 88. energetic, 89. analyze, 90. experiment, 91. spectrum, 92. mass, 93. excite, 94. release, 95. emit, 96. exhausted, 97. systemic, 98. encourage, 99. heaven

100. ace milestones	ν.	to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do
101. det smuggling across borders	v.	to find or recognize something, especially something difficult to see, hear, etc.
102. a gay of famous actors	n.	an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity
103. zm in on a photo	ν.	to move along very quickly; (noun) the act of rising upward into the air
104. global emons of greenhouse gases	n.	the act of production or sending out gas, heat, light, etc.
105. raw tat	n.	a natural ability to be good at something; someone who has a natural ability to be good at something
106. aesthetic excnt	n.	a feeling of great enthusiasm and eagerness
107. astcal numbers	adj.	relating to astronomy or the study of celestial bodies and phenomena; very large or immense in scale or magnitude
108. hug bird	adj.	producing a continuous, low, vibrating sound like that of the bee
109. ane your real motives	v.	to think about in-depth and evaluate to discover essential features or meaning
110. job roon	n.	the action or process of moving in a circle around an axis or center

ANSWERS: 100. achieve, 101. detect, 102. galaxy, 103. zoom, 104. emission, 105. talent, 106. excitement, 107. astronomical, 108. humming, 109. analyze, 110. rotation

111. syic reforms of the organization	adj.	affecting or related to the whole of something, especially the human body or a society
112. impion on stage	n.	the act of making something up on the spot or creating or performing something without preparation
113. a spus room	adj.	(especially of a room or building) very large and plenty of space
114. b_p the horn	<i>v</i> .	to make a short, high-pitched sound, typically as a signal or warning
115. ready to cose	ν.	to fall down or give way suddenly, often after breaking apart
116. frcy band	n.	an ordered array of colors into which a light beam can be split
117. deon by the security software	n.	the act of discovering or identifying the presence of something
118. astics research	n.	the branch of physics concerned with the study of the properties and behavior of celestial objects and the physical processes that govern the behavior and evolution of the universe
119. demte mastery	ν.	to display something or give an exhibition to an interested audience
120. solar coI plasma	adj.	of or relating to the corona (= the outermost region of the sun's atmosphere); of or relating to or similar to the crown (= traditional head adornment, or hat worn by the reigning

ANSWERS: 111. systemic, 112. improvisation, 113. spacious, 114. beep, 115. collapse, 116. frequency, 117. detection, 118. astrophysics, 119. demonstrate, 120. coronal

monarch)

121. exc\_\_\_\_ate the priest from the to officially exclude someone from ν. membership in a church or religious church community; to expel or banish someone from a group or society to get something back or recover 122. re\_\_n our reputation ν. something after it has been lost or taken away a building designed and equipped to 123. a meteorological obs\_\_\_\_ry n. observe the planets, the stars, the weather, etc. a detailed plan of action designed to 124. develop a st gy n. achieve a long-term or overall goal. 125. plenty of in\_\_\_\_or space the inside or inner part of something; n. the space within the walls of a building 126. ex e the data studiously to study or consider a person or object ν. attentively and thoroughly to learn something about them 127. in\_\_\_\_et a graph to explain or assign the meaning of ν. information, actions, etc. to mentally connect someone or 128. as te with people widely ν. something with someone or something else a series of actions or operations 129. decision-making pr s n. performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other

ANSWERS: 121. excommunicate, 122. regain, 123. observatory, 124. strategy, 125. interior, 126. examine, 127. interpret, 128. associate, 129. process

dairy products

130. demte a difference	v.	to display something or give an exhibition to an interested audience
131. obe wildlife	<i>v</i> .	to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion
132. prr in the long run	v.	to be successful or thriving, especially financially; to grow and develop well; to flourish
133. develop ine itching	adj.	(especially of a feeling) very strong; extremely sharp or severe
134. a person of diverse tats	n.	a natural ability to be good at something; someone who has a natural ability to be good at something
135. a maic tape	adj.	having the properties of attracting or repelling certain materials containing iron or steel
136. flsh worldwide	v.	to grow or develop vigorously or successfully
137. a detnt of crop yields	n.	a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
138. laws of phs	n.	the science of matter and energy and their interactions
139. an indomitable spt	n.	the part of a person which is the seat of their mind, feelings, and character rather than their physical body; the general atmosphere of a place or situation and the effect that it has on people

ANSWERS: 130. demonstrate, 131. observe, 132. prosper, 133. intense, 134. talent, 135. magnetic, 136. flourish, 137. determinant, 138. physics, 139. spirit

140. solar aster	n.	a physicist who studies astronomy
141. information bar	n.	a fence or other obstruction that makes it hard to move or get in; any condition that makes it difficult to make progress or to achieve an objective
142. field of vil arts	adj.	relating to seeing or sight
143. diy artwork	ν.	to exhibit or show something to others, often to attract attention or demonstrate its features, properties, or value
144. r_t with age	v.	to decay, or cause something to decay, naturally and gradually
145. ree a prisoner	v.	to set free or allow to escape from confinement
146. ace success	v.	to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do
147. mae amounts	adj.	enormous amount; very heavy and solid
148. 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)
149. ske park	n.	a type of footwear that has a blade attached to its sole for skating on ice or other hard surfaces; an activity or sport that involves gliding on skates on ice or

ANSWERS: 140. astronomer, 141. barrier, 142. visual, 143. display, 144. rot, 145. release, 146. achieve, 147. massive, 148. titanic, 149. skate, 150. humming

150. hu\_\_\_\_g sound

other hard surfaces

sound like that of the bee

adj. producing a continuous, low, vibrating

151. colte on a press release	ν.	to work with someone else to produce or achieve something
152. new dion	n.	a measurable extent of a particular kind, such as width, height, or length
153. inor decoration	n.	the inside or inner part of something; the space within the walls of a building
154. maic field	adj.	having the properties of attracting or repelling certain materials containing iron or steel
155. excate a sinner	ν.	to officially exclude someone from membership in a church or religious community; to expel or banish someone from a group or society
156. ine heat	adj.	(especially of a feeling) very strong; extremely sharp or severe
157. peron of a stimulus	n.	a belief, opinion, or image you have based on how you regard, understand, or interpret something; the ability to see, hear, or notice something through the senses
158. inte the quality of his life	v.	to introduce new methods, ideas, or products
159. det a bad event	<i>v</i> .	to find or recognize something, especially something difficult to see, hear, etc.
160. obe a tradition	ν.	to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special

ANSWERS: 151. collaborate, 152. dimension, 153. interior, 154. magnetic, 155. excommunicate, 156. intense, 157. perception, 158. innovate, 159. detect, 160. observe

event or occasion

161. bld spot	adj.	unable to see; unable or unwilling to perceive or understand the true nature of something
162. obs reasons	adj.	easy to see, discover or understand
163. simsly affected	adv.	at the same time
164. a learning disty	n.	a physical or mental condition that makes it difficult for someone to do some things that other people do
165. cast a traion spell	<i>n</i> .	a complete change in form, nature, or appearance of someone or something
166. mat attraction	n.	an object or substance that can attract certain materials, such as iron or steel
167. a binocular tepe	n.	a device like a tube in shape containing lenses used to magnify and observe distant objects
168. voe of work	n.	the amount of space occupied by an object or substance; the magnitude of sound
169. military stgy	n.	a detailed plan of action designed to achieve a long-term or overall goal.
170. suva remnant	n.	a powerful and luminous explosion that occurs in some stars, resulting in an extremely bright, short-lived object that later fades into a supernova remnant
171. beg to different species	<i>v</i> .	to be the property of someone or something; to be a member or part of a group; to be in the proper or appropriate

ANSWERS: 161. blind, 162. obvious, 163. simultaneously, 164. disability, 165. transformation, 166. magnet, 167. telescope, 168. volume, 169. strategy, 170. supernova, 171. belong

place

172. exge rate	<i>v</i> .	to give something and receive something else in return, often with the implication that the items being traded are of equal or comparable value; (noun) the act of giving or taking something in return for something else; a place or system where goods or services can be bought, sold, or traded
173. ouw of capital	n.	the leakage of fluid from a container; a natural flow of groundwater
174. adn two rooms	ν.	to be next to or border upon; to be adjacent or connected to something
175. trer power	<i>v</i> .	to move, pass, or change from one person, place, or situation to another
176. trit the disease	<i>v</i> .	to send or forward an electronic signal; to pass something from one person or thing to another
177. neutrino astics	n.	the branch of physics concerned with the study of the properties and behavior of celestial objects and the physical processes that govern the behavior and evolution of the universe
178. ceal bliss	adj.	relating to the sky or the heavens; of or like the sky or the heavens
179. the teue applied to construction	n.	a particular way or art of doing something that needs skill
180. stripes chatic of the zebra	n.	a typical feature or quality that can identify, tell apart, or describe something or somebody

ANSWERS: 172. exchange, 173. outflow, 174. adjoin, 175. transfer, 176. transmit, 177. astrophysics, 178. celestial, 179. technique, 180. characteristic

- 181. z m lens 182. op\_\_\_\_ne occasion 183. fu\_\_\_\_I a contract 184. learning cu e 185. a broad sp\_\_\_um of opinion 186. elliptic ga\_\_\_y 187. scr ze her belongings 188. a hu\_\_\_e cottage 189. an ele\_\_\_\_al storm 190. vi\_\_\_\_e by X-ray 191. certified pro\_\_\_\_nal secretary 192. pr\_\_\_s improvement
- v. to move along very quickly; (noun) the act of rising upward into the air
- adj. suitable or happening at a time that is suitable or convenient for a particular purpose
- v. to meet the requirements or expectations; to achieve or realize
- a bend or angle in a line or surface that deviates from a straight or flat path; a gradual or smooth change in direction or shape
- n. an ordered array of colors into which a light beam can be split
- an independent group of stars,
   interstellar gas, dark matter, etc., in the universe, bound together by gravity
- v. to examine carefully and critically; to inspect closely
- adj. having or showing a modest or low estimate of one's quality or importance
- adj. relating to electricity
- adj. capable of being seen; or open to easy view
- adj. having or showing the skill appropriate to a particular job; competent or skillful
- n. a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

ANSWERS: 181. zoom, 182. opportune, 183. fulfill, 184. curve, 185. spectrum, 186. galaxy, 187. scrutinize, 188. humble, 189. electrical, 190. visible, 191. professional, 192. process

193. itssy detail	adj.	very small or tiny
194. keen peron	n.	a belief, opinion, or image you have based on how you regard, understand, or interpret something; the ability to see hear, or notice something through the senses
195. the traion of a tadpole into a frog	n.	a complete change in form, nature, or appearance of someone or something
196. accte a person with money	ν.	to provide someone with a place to live or to be stored in; to make fit for or to change to suit a new purpose
197. smokeless fl	n.	a substance that is typically burned to generate heat or energy
198. opaque to X-r_ys	n.	a narrow line of light, heat, or another form of energy
199. asmy science	n.	the scientific study of objects and matter outside the Earth's atmosphere, especially the positions, motions, and evolution of celestial bodies
200. dep a skill	ν.	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
201. exe the issue	<i>v</i> .	to study or consider a person or object attentively and thoroughly to learn something about them
202. the stock market cosed	ν.	to fall down or give way suddenly, often after breaking apart

ANSWERS: 193. itsy-bitsy, 194. perception, 195. transformation, 196. accommodate, 197. fuel, 198. ray, 199. astronomy, 200. develop, 201. examine, 202. collapse

203. permanent mat	n.	an object or substance that can attract certain materials, such as iron or steel
204. adn the garden	<i>v</i> .	to be next to or border upon; to be adjacent or connected to something
205. trte a document into English	<i>v</i> .	to convert or change words into another language
206. conte a large sum of money to the fund	ν.	to give something, especially money or goods, to provide or achieve something together with other people
207. eve over the past decade	ν.	to develop gradually, or to cause the development of something or someone gradually
208. vie stars	adj.	capable of being seen; or open to easy view
209. an opne remark	adj.	suitable or happening at a time that is suitable or convenient for a particular purpose
210. tron cubic feet	n.	the number 1,000,000,000,000; a million million
211. whe a tune	v.	to make a high-pitched sound by forcing breath through a small opening, usually with the lips or fingers; (noun) a piece of equipment that forces air or steam against an edge or into a cavity and so produces a loud shrill sound
212. exe rebellion	<i>v</i> .	to make someone feel suddenly enthusiastic or eager
213. traon phase	n.	the process or period of changing from one state or circumstance to another

ANSWERS: 203. magnet, 204. adjoin, 205. translate, 206. contribute, 207. evolve, 208. visible, 209. opportune, 210. trillion, 211. whistle, 212. excite, 213. transition

214. amateur aster	n.	a physicist who studies astronomy
215. prr as a trading hub	v.	to be successful or thriving, especially financially; to grow and develop well; to flourish
216. I_t a ban on alcohol	ν.	to raise something to a higher position or level; to pick up something or somebody and move them to a different position
217. inte an error	v.	to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly
218. ceal navigation	adj.	relating to the sky or the heavens; of or like the sky or the heavens
219. pronal athlete	adj.	having or showing the skill appropriate to a particular job; competent or skillful
220. diste video content	<i>v</i> .	to give something to a large number of individuals, or to spread or furnish something
221. scrze a suspect	<i>v</i> .	to examine carefully and critically; to inspect closely
222. beg to a group	v.	to be the property of someone or something; to be a member or part of a group; to be in the proper or appropriate place
223. his conclusion was obs	adj.	easy to see, discover or understand
224. cot fat into energy	<i>v</i> .	to have a talk with someone; (adjective) reversed in order, relation, or action

ANSWERS: 214. astronomer, 215. prosper, 216. lift, 217. indicate, 218. celestial, 219. professional, 220. distribute, 221. scrutinize, 222. belong, 223. obvious, 224. convert

225. a di\_\_\_\_I 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 a bend or angle in a line or surface that 226. yield cu e n. deviates from a straight or flat path; a gradual or smooth change in direction or shape (of various religious and mythological 227. he\_\_\_n on earth traditions) a place or state of existence considered to be the abode of the divine, the afterlife, or a higher realm of being; a state of great happiness, contentment, or beauty to require a specific thing or the 228. r\_\_y entirely on him assistance and support of someone or something to continue, run properly, or succeed. 229. ast cal observation adj. relating to astronomy or the study of celestial bodies and phenomena; very large or immense in scale or magnitude 230. dull si\_\_t the ability to see; anything that is seen n. 231. a dis\_\_\_\_ty pension a physical or mental condition that n. makes it difficult for someone to do some things that other people do

ANSWERS: 225. digital, 226. curve, 227. heaven, 228. rely, 229. astronomical, 230. sight, 231. disability, 232. regain

away

to get something back or recover

something after it has been lost or taken

232. re\_\_\_n my health

- 233. degree in ele al engineering
- 234. ma e stars
- 235. nuclear ph s
- 236. sp\_\_\_us country
- 237. make a pi\_h for a new product
- 238. ga\_\_a radiation
- 239. die su\_\_\_\_ly
- 240. ev e
- 241. b\_s fisherman
- 242. ej thuge amounts of pollutant
- 243. a m s of molten rock

- adj. relating to electricity
- adj. enormous amount; very heavy and solid
- *n.* the science of matter and energy and their interactions
- adj. (especially of a room or building) very large and plenty of space
- n. the property of sound that varies with variation in the frequency of vibration; the degree of a slope, especially of a roof; short presentation for selling or sharing something
- n. the third letter of the Greek alphabet; a type of radiation having the shortest wavelength and highest energy of electromagnetic waves
- adv. quickly and unexpectedly
- v. to develop gradually, or to cause the development of something or someone gradually
- the lowest part in polyphonic music; a type of fish belonging to the large order Perciformes, or perch-like fishes
- v. to force someone to put out or leave a particular place or position
- a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together

ANSWERS: 233. electrical, 234. massive, 235. physics, 236. spacious, 237. pitch, 238. gamma, 239. suddenly, 240. evolve, 241. bass, 242. eject, 243. mass

244. ele	tic radiation	adj.	of or relating to the magnetism produced by electric charge in motion
245. ou_	ne his teacher	<i>v</i> .	to be more brilliant, striking, or impressive than; to outdo or excel
246. spa	ace obsry	n.	a building designed and equipped to observe the planets, the stars, the weather, etc.
247. pa_	le energy	n.	a small piece of something; a word or piece of a term with grammatical function but little or no significance
248. en_	ic density	adj.	possessing or exerting or displaying energy
249. ser	ies of expnts	n.	the scientific test conducted to observe what happens and gain new knowledge
250. co_	t base 10 to base 16	<i>v</i> .	to have a talk with someone; (adjective) reversed in order, relation, or action
251. the	coI part of a natural tooth	adj.	of or relating to the corona (= the outermost region of the sun's atmosphere); of or relating to or similar to the crown (= traditional head adornment, or hat worn by the reigning monarch)
252. ex_	ge a few friendly words	ν.	to give something and receive something else in return, often with the implication that the items being traded are of equal or comparable value; (noun) the act of giving or taking something in return for something else; a place or system where goods or

ANSWERS: 244. electromagnetic, 245. outshine, 246. observatory, 247. particle, 248. energetic, 249. experiment, 250. convert, 251. coronal, 252. exchange

services can be bought, sold, or traded

cab-Builder Ref from "Wan	da Diaz Merced: How	v a blind astronome	er found a way to hea	ar the stars   TED Ta	alk" (126 word
ANSWERS:					

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

1.	She agreed to	with him in crea	ting new artwork.	
<i>v</i> .	to work with someone	e else to produce or ac	hieve something	
2.	It is important toaccidents.	safety procedures i	n the workplace to	prevent
<i>v</i> .		mething carefully, ofter ng or someone; to cele	•	
3.	This vaccine causes m	ild side effe	cts.	
adj	<ul> <li>affecting or related to society</li> </ul>	the whole of somethin	ig, especially the h	uman body or a
4.	With careful planning a business venture.	and hard work, she was	s able to i	in her new
ν.	to be successful or the flourish	riving, especially finan	cially; to grow and	develop well; to
5.	The Ottoman Empire _	for over fiv	e centuries.	
<i>v</i> .	to grow or develop vi	gorously or successfull	ly	
6.	The singer's voice filled	d the auditorium with b	eautiful	_•
n.	emotional or mental	perating sound or tone; vibration or significance condence between two	e; a mutual or sym	•
7.	The cost of the new ed budget.	uipment was	and beyond	I the company's
adj	i. relating to astronomy large or immense in s	_	al bodies and pher	nomena; very
	SWERS: 1. collaborate onance, 7. astronomica	•	ic, 4. prosper, 5. fl	ourished, 6.

41. The bodies in the night sky were beautiful to behold.
adj. relating to the sky or the heavens; of or like the sky or the heavens
<ul><li>42. The in the road was so sharp that I had to slow down to navigate it safely.</li><li>n. a bend or angle in a line or surface that deviates from a straight or flat path; a gradual or smooth change in direction or shape</li></ul>
43. That astronomical stands at the top of the mountain.
<ul> <li>a building designed and equipped to observe the planets, the stars, the weather, etc.</li> </ul>
44. His estate was to his sons.
v. to give something to a large number of individuals, or to spread or furnish something
45. There are differences between the two wine-producing regions.
adj. easy to see, discover or understand
46. Several satellites failed due to a solar wind caused by mass ejections.
adj. of or relating to the corona (= the outermost region of the sun's atmosphere); of or relating to or similar to the crown (= traditional head adornment, or hat worn by the reigning monarch)
47. One of success is having a positive attitude and a strong work ethic.
<ul> <li>a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result</li> </ul>
48. Two students answered the teacher's question
adv. at the same time
ANSWERS: 41. celestial, 42. curve, 43. observatory, 44. distributed, 45. obvious, 46. coronal, 47. determinant, 48. simultaneously

Vocab-Builder Ref from	"Wanda Diaz Merced: How a blind astronome	r found a way to hear the stars   TED Talk" (126 words)
49. The	_ of the bees filled the air as she	walked through the garden.
adj. producing	a continuous, low, vibrating soun	d like that of the bee
50. The animal	rights group worked to t	the dolphins back into the wild.
v. to set free	or allow to escape from confinen	nent
51. The teacher	r attempted to the root c	ause of our mistake.
v. to think ab	out in-depth and evaluate to disc	over essential features or meaning
52. She	the money from her savin	gs account to her checking account.
v. to move, p	pass, or change from one person,	place, or situation to another
53. The	_ ship sank on its maiden voyage	э.
	ng a great size, power, or influencing grey, lustrous, corrosion-resista	
54. The data past quarter		fits have steadily increased over the
· •	oint out, or make known something to imply something without statir	ng, often through a sign or a symbol; ng it directly
55. There are fi	ve distinct at five unic	que wavelengths.
n. the act of	production or sending out gas, he	eat, light, etc.
56. The nation's	s healthcare system is in	at the moment.
n. the proces	ss or period of changing from one	state or circumstance to another
57. His hypothe	esis concerns the role of an	field in human health.
adj. of or relati	ng to the magnetism produced by	electric charge in motion
	humming, 50. release, 51. analy missions, 56. transition, 57. electr	ze, 52. transferred, 53. titanic, 54. comagnetic

58.	He the heavy suitcase behind him as he walked.		
<i>v</i> .	to pull or haul with force		
59.	Eyeless fish in dark caves.		
v.	to develop gradually, or to cause the development of something or someone gradually		
60.	The drought the prices of grain globally.		
v.	to raise something to a higher position or level; to pick up something or somebody and move them to a different position		
61.	He had a deep passion for extragalactic and spent hours observing the night sky.		
n.	the scientific study of objects and matter outside the Earth's atmosphere, especially the positions, motions, and evolution of celestial bodies		
62.	Understanding unitary of a normal matrix require considerable mathematical sophistication.		
n.	a complete change in form, nature, or appearance of someone or something		
63.	She was nearly due to severe diabetes.		
adj	unable to see; unable or unwilling to perceive or understand the true nature of something		
64.	During the unloading, the container box a clicking sound.		
<i>v</i> .	v. to give off or send out something such as light, heat, sound, gas, etc.		
65.	This container has a of 10 cubic meters.		
n.	the amount of space occupied by an object or substance; the magnitude of sound		
	SWERS: 58. dragged, 59. evolved, 60. lifted, 61. astronomy, 62. transformations, blind, 64. emits, 65. volume		

108.	The majority of students actively in the college's intramural sports program.
<i>v</i> .	to take part in something
109.	Companies developing self-driving cars consistently the emerging technologies.
<i>v</i> .	to introduce new methods, ideas, or products
110.	They customers with a premium for loyal patronage.
v.	to give someone support, confidence, or hope; to persuade someone to do or continue to do something by making it easier for them and making them believe it is a good thing to do
111.	The MRI machine uses to produce images of the body's internal organs.
n.	an object or substance that can attract certain materials, such as iron or steel
112.	Initially, we must all project-related expenses.
ν.	to study or consider a person or object attentively and thoroughly to learn something about them
113.	The new singer all the others on stage with her powerful voice.
<i>v</i> .	to be more brilliant, striking, or impressive than; to outdo or excel
114.	Despite their tragic loss, the family is showing great
n.	the part of a person which is the seat of their mind, feelings, and character rather than their physical body; the general atmosphere of a place or situation and the effect that it has on people
115.	The old building in a fiery inferno.
v.	to burst or break open violently and noisily; to cause something to burst or break open
	SWERS: 108. participated, 109. innovate, 110. encouraged, 111. magnets, 112. mine, 113. outshined, 114. spirit, 115. exploded

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associate, 121. technique, 122. interiors, 123. regained, 124. accommodates

ocab-Builder Ref from "Wanda Diaz Merced: How a blind astronomer found a way to hear the stars   TED Talk" (126 words			
125. The church leaders decided to a serious offense.	_ the member who had committed		
v. to officially exclude someone from membershi community; to expel or banish someone from			
126. My father's death my life comple	etely.		
v. to change in outward structure or looks;			
ANSWERS: 125. excommunicate, 126. transformed	d		