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Vocabulary Builder Reference from...

Ariel Anbar: A needle in countless haystacks: Finding habitable worlds | TED Talk https://www.ted.com/talks/ariel_anbar_a_needle_in_c ountless haystacks finding habitable worlds



All Words

IMPORTANT

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Session 1: Word List

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.

galaxy

an independent group of stars, interstellar gas, dark
 matter, etc., in the universe, bound together by gravity

synonym: star cluster, nebula, star system

elliptic galaxy, (2) a galaxy of famous actors
 The Milky Way galaxy has numerous water-bearing planets.

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.

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**.

immense

adj. extremely large or great

synonym: enormous, giant, huge

(1) **immense** amount, (2) **immense** pressure

He left his wife an **immense** fortune.

needle

 a thin, pointed object typically used for sewing or medical purposes; a metal or plastic instrument used for administering injections or drawing blood

synonym: thorn, spike, pin

(1) needle prick, (2) sewing needle

The acupuncturist inserted **needles** into specific points on my body to alleviate my pain.

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.

haystack

- n. a large mound of hay, usually stacked in a conical or cylindrical shape, used for animal feed or bedding
 synonym: pile, heap, stack
- (1) haystack fire, (2) lost in a haystack

The children played hide and seek in the **haystacks** in the barnyard.

watery

adj. full of or containing water; wet

synonym: liquid, wet, damp

(1) a watery fluid, (2) go to a watery grave

The soup was too **watery** and needed more flavor.

coincidence

n. an occasion when two or more similar things happen at the same time by chance, in a surprising waysynonym: co-occurrence, concurrency, accident

(1) the **coincidence** of an opinion, (2) by a strange **coincidence**

It was a pure **coincidence** that we met her in the library.

quarter

n. one of four equal parts; a fourth part or portionsynonym: fourth, one-fourth

(1) a **quarter** mile, (2) end of the first **quarter**The unemployment rate in the first **quarter** was 2.3 percentage points higher than in the previous.

chemical

adj. relating to or connected with chemistry;synonym: chemic, synthetic

(1) toxic **chemicals**, (2) a **chemical** compound

The firm has grown into a large **chemical** manufacturing.

absolutely

adv. without restriction or limitation; completely or utterly synonym: completely, utterly, definitely

(1) **absolutely** against, (2) **absolutely** obsessed with the girl

I am absolutely opposed to his idea because of morality.

essential

adj. indispensable; fundamental synonym: critical, crucial, basic

(1) **essential** amino acid, (2) **essential** commodities of life Trial and error is an **essential** part of education.

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.

abundant

adj. present in great quantity

synonym: ample, plentiful, generative

(1) live an **abundant** life, (2) an **abundant** supply of water The country has **abundant** oil and natural gas resources.

fortunate

adj. having good luck or lucky synonym: fortuitous, lucky, blessed

(1) **fortunate** situation, (2) less **fortunate** person He was pretty **fortunate** to pass the exam.

liquid

 a substance, such as water or oil that flows freely and is neither a solid nor a gas

synonym: fluid

colorless liquid, (2) hazardous liquid
 sponge takes up the liquid well.

vapor

- n. a mass of tiny liquid drops in the airsynonym: condensation, dew, fog
- (1) alcohol **vapor**, (2) water **vapor** in the atmosphere Clouds form when water **vapor** rises to the upper atmosphere.

gravity

n. the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn

synonym: heaviness, attraction, weight

(1) the attraction of **gravity**, (2) preserve my **gravity**The astronaut felt weightless in space due to the absence of **gravity**.

molecule

 a group of two or more atoms held together by attractive forces known as chemical bonds

synonym: particle, element, atom

small molecules, (2) molecule behavior
 shape of the DNA molecule is a double helix.

mar

v. to damage or spoil the appearance or surface of something

synonym:

damage, deface, disfigure

(1) **mar** a proper relationship, (2) **mar** the reputation The scratches on the car **marred** its otherwise perfect appearance.

atmosphere

- the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work
 synonym: 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.

vacuum

- n. a space empty of matter; a device or tool used for cleaning or removing debris by creating suctionsynonym: void, emptiness, gap
- (1) **vacuum** cleaner, (2) **vacuum** packing Please use the **vacuum** to clean up the mess on the floor.

stable

adj. firm and steady; not easily moved, disturbed, or changed

synonym: sturdy, unmoving, durable

(1) in **stable** condition, (2) have a **stable** job Relations between the two countries have been relatively **stable** due to the summit meeting.

spill

v. to cause or allow liquid to run or flow over the edge of its container by accident

synonym: slop, drop, scatter

(1) **spill** a bit of wine, (2) **spill** my heart He was determined to **spill** everything.

solid

- adj. hard or firm; characterized by good substantial quality synonym: stable, reliable, hard
- (1) **solid** ally, (2) **solid** employment measures The **solid-state** of water is called ice.

survive

- v. to live or exist despite a dangerous event or period synonym: endure, persist, stay
- (1) **survive** a blizzard, (2) **survive** a plane crash These birds can only **survive** in temperate climates.

distance

n. the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance

synonym: space, gap, span

(1) driving **distance**, (2) social **distance**

The marathon runner covered a long **distance** in a short amount of time.

temperature

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

Cities around the world set records for highest **temperatures** this summer.

exceed

 to surpass or go beyond a limit, expectation, or requirement; to be better or greater than anticipated or desired

synonym: surpass, outdo, excel

(1) **exceed** sales targets, (2) **exceed** the speed limit The athlete's performance **exceeded** all expectations, breaking a world record.

suffice

 to be enough or sufficient; to meet the needs or requirements of something or someone; to satisfy or fulfill a purpose

synonym: satisfy, meet, be enough

(1) **suffice** to live, (2) **suffice** as evidence Would one cup of flour **suffice** for this recipe?

zone

 a specific area, region, or section that is marked off or defined in some way

synonym: area, region, territory

(1) time zone, (2) zone defense

He was reluctant to leave his comfort **zone** and try something new.

belt

 to sing loudly and forcefully; to hit someone or something hard; (noun) a strip of leather or other material worn to tie or buckle something around the body

synonym: sing, hit hard, (noun) strap

(1) **belt** him in the face, (2) leather **belt**

The band was **belting** out old songs in response to audience requests.

definitely

adv. without any question and beyond doubt; clearly *synonym*: absolutely, certainly, indeed

(1) **definitely** become a problem, (2) say **definitely** The paper is **definitely** worth reading thoroughly.

bet

v. to risk money on the result of an event or a competition, such as a race or game, to get more money; to have faith or confidence in something

synonym: stake, wager, gamble

(1) **bet** on a race, (2) **bet** my future

I **bet** that you know it.

complication

 something that makes a situation or condition that is complex or confused

synonym: confusion, complexity, difficulty

(1) **complication** of structure, (2) resolve without **complication**

He also continued to struggle with serious long-term **complications**.

necessarily

adv. in an essential manner; in such a way as could not be otherwise

synonym: inevitable, certainly, automatically

(1) not **necessarily** a problem, (2) **necessarily** true

This accident was something that happened **necessarily**.

Venus

- n. the planet second in order from the sun
- (1) Venus orbiter, (2) surface of Venus

They launched a rocket toward **Venus**.

alien

 a person who comes from a different country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere

synonym: foreigner, unfamiliar, unknown

(1) alien fungi, (2) resident aliens

Alien species have drastically altered the ecosystem in this area.

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.

twin

- either of two children born at the same time from the same mother
- (1) a **twin-lens** camera, (2) a **twin** room Its **twin** brothers are difficult to tell apart except for their parents.

carbon

- a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals
- (1) carbon dioxide, (2) carbon emission

Trees absorb carbon dioxide and give off oxygen.

oxide

 a chemical compound that contains at least one oxygen atom and one other element (1) silver **oxide**, (2) combined **oxide**

The blood's red coloring comes from iron **oxide**.

greenhouse

 a building with walls and roof made chiefly of transparent material, such as glass, for growing plants in

synonym: conservatory

(1) exotic plants in a **greenhouse**, (2) emissions of **greenhouse** gases

The **greenhouse** effect is a phenomenon that happens naturally.

entirely

adv. completely

synonym: completely, fully, totally

(1) **entirely** satisfied with the meal, (2) he was **entirely** to blame

Later, his claim was found to be entirely false.

melt

v. to turn from something solid into something soft or liquid as a result of heating

synonym: disintegrate, soften, disappear

(1) melt the ice, (2) melt down gold

Her resistance melted under his persuasion.

makeup

 colored substances used on someone's face to improve or change their appearance

synonym: maquillage, composition, cosmetic

(1) **makeup** artist, (2) take the **makeup** off her face Her beauty resulted from a good night's sleep rather than **makeup**.

emerge

to move out of or away from something and become visible

synonym: arise, occur, appear

(1) **emerge** as a butterfly, (2) **emerge** from poverty During colonial eras, new migratory patterns **emerged**.

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.

microbe

 a tiny living thing that can only be seen with a microscope and that may cause disease

synonym: germ, microorganism, bacterium

(1) pathogenic **microbe**, (2) **microbes** sterilizer **Microbes** thrive on the surface of the human skin.

extreme

adj. very great in amount or degreesynonym: farthermost, outermost, fierce

extreme sports, (2) extreme weather events
 Solar gravity creates extreme pressures and temperatures.

environment

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

synonym: atmosphere, surroundings, climate

(1) **environment** affairs, (2) chaotic **environment** Every human is responsible for taking care of the Earth's **environment**.

fissure

 a narrow opening or crack, especially in a rock or other hard substance; a division or splitting within a group or organization

synonym: crack, crevice, gap

(1) pulmonary **fissure**, (2) **fissure** in the relationship The **fissure** in the rock was too narrow to squeeze through.

beneath

adv. in or to a lower place than someone or something synonym: down, under, low

(1) the ground beneath my feet, (2) beneath contempt

A great stretch of the lake lay **beneath** them.

acidic

adj. having a pH lower than 7; having characteristics of an acid, such as tasting sour or corroding metal

synonym: sour, tart, acrid

(1) acidic solution, (2) acidic taste

The soil in this region is too **acidic** for most crops to grow well.

thermal

adj. relating to heat or temperature; designed for or capable of producing or maintaining heat

synonym: heat-related, warm, hot

(1) thermal insulation, (2) thermal energy

The **thermal** imaging camera was used to detect heat signatures in the dark.

droplet

n. a small drop of liquid

synonym: bead, drip, dewdrop

(1) **droplet** size, (2) **droplet** formation

A single **droplet** of water can reflect the entire world upside down.

extremophile

- a type of organism, typically a microbe, that can survive and thrive in extreme or harsh environments that would be inhospitable to most other forms of life, such as high heat, acidity, radiation, or pressure
- (1) **extremophile** adaptations, (2) **extremophile** habitat **Extremophile** bacteria can survive in extreme heat, cold, and radiation.

estimate

v. to guess or calculate the cost, size, value, etc. of something

synonym: calculate, gauge, evaluate

(1) **estimate** a fair value, (2) **estimate** this chicken to weigh three pounds

We **estimated** the season's total trade deficit at \$50 billion.

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.

underground

adj. under the surface of the ground; a secret group organized to achieve a specific purpose, such as overthrowing the government or occupying a force

synonym: subterranean, subsurface, confidential

(1) water flowing **underground**, (2) **underground** activist Having **underground** parking has been very beneficial throughout the winter.

subterranean

adj. under the ground

synonym: underground, belowground, subsurface

(1) **subterranean** rooms, (2) **subterranean** motives for murder

Such subterranean passages span kilometers in London.

sunshine

- n. the direct light and heat that comes from the sun synonym: sunlight, daylight, rays
- (1) warm **sunshine**, (2) morning **sunshine**The **sunshine** was so bright that I had to wear sunglasses to protect my eyes.

tip

 the top or extreme point of something slender or tapering, usually a mountain or hill; a piece of advice about something practical; a small amount of money given for services

synonym: edge, advice, gratuity

(1) the tip of a paintbrush, (2) give the waiter a tip.I will introduce some tips on learning English in this class.

astrobiology

- n. the study of the origin, evolution, distribution, and future of life in the universe, including the search for extraterrestrial life
- (1) **astrobiology** finding, (2) valuable data for **astrobiology** The discovery of liquid water on Mars has opened up new avenues for **astrobiology** research.

iceberg

a large piece of ice floating in the sea, detached from a glacier

synonym: glacier, ice mass, floe

(1) hit an **iceberg**, (2) **iceberg** melting
The ship encountered a series of **icebergs** and had to change its course.

persist

- v. to continue to do and refuse to stop something despite difficulties or opposition, even if it appears unreasonable
 synonym: endure, continue, carry on
- (1) **persist** over time, (2) **persist** in success Consult your doctor if the symptoms **persist**.

aquifer

- an underground layer of rock, sand, or Earth that can take in and hold water
- (1) **aquifer** soil, (2) subsurface **aquifer**Some areas melt snow by harnessing heat from underground **aquifers**.

thrive

- v. to grow vigorously; to make steady progress synonym: bloom, flourish, prosper
- (1) **thrive** in a society, (2) **thrive** on pressure Without investment, a business cannot **thrive**.

Jovian

adj. relating to Jupiter or its characteristicssynonym: Jupiter, giant planet

(1) **Jovian** satellites, (2) **Jovian** planet
The **Jovian** moon Europa is believed to have an ocean beneath its icy surface.

crust

 a hard outer layer that forms on the surface of a liquid as it cools or on a solid as a result of exposure to air or moisture

synonym: layer, coating, shell

(1) **crust** formation, (2) the earth's **crust**

The bread's **crust** was golden brown and crispy.

geyser

 a natural hot spring that periodically ejects a column of boiling water and steam into the air; a device that produces a similar effect for decorative or practical purposes

synonym: hot spring, fumarole

(1) erupting **geyser**, (2) Yellowstone **geyser**

The **geyser's** hot water generates electricity for nearby towns and cities.

erupt

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

synonym: eject, emit, burst

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

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

crazy

adj. stupid or not sensible; very angrysynonym: insane, absurd, bizarre

(1) **crazy** about cars and racing, (2) a **crazy** scheme The rain and thunder are **crazy** today.

creature

- n. a living being, especially an animal synonym: being, animal, organism
- (1) creature of habit, (2) artificial creature

The deep sea **creature** was unlike anything the scientists had ever seen before.

scheme

n. an organized and often large-scale plan or arrangement for doing something

synonym: strategy, blueprint, plan

(1) a pilot scheme, (2) draw out a scheme

They carefully executed the well-planned **scheme** they had prepared over the years.

Session 2: Spelling

1 2		h,	202	inct
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- 2. ex___e sports
- 3. extreme tem____res
- 4. su___e a blizzard
- 5. mi____es sterilizer
- 6. z e defense
- 7. th____I insulation
- 8. va___m packing
- 9. toxic ch als
- 10. ca n emission
- 11. alcohol va r
- 12. hit an ic g

- adv. without restriction or limitation; completely or utterly
- adj. very great in amount or degree
- n. the degree of hotness or coldness of a thing or place
- v. to live or exist despite a dangerous event or period
- a tiny living thing that can only be seen with a microscope and that may cause disease
- a specific area, region, or section that is marked off or defined in some way
- adj. relating to heat or temperature;designed for or capable of producing or maintaining heat
- a space empty of matter; a device or tool used for cleaning or removing debris by creating suction
- adj. relating to or connected with chemistry;
- a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals
- n. a mass of tiny liquid drops in the air
- n. a large piece of ice floating in the sea, detached from a glacier

ANSWERS: 1. absolutely, 2. extreme, 3. temperature, 4. survive, 5. microbe, 6. zone, 7. thermal, 8. vacuum, 9. chemical, 10. carbon, 11. vapor, 12. iceberg

13.	defly become a problem	adv.	without any question and beyond doubt; clearly
14.	esal amino acid	adj.	indispensable; fundamental
15.	acc solution	adj.	having a pH lower than 7; having characteristics of an acid, such as tasting sour or corroding metal
16.	theory of the unse	n.	everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
17.	m_r a proper relationship	<i>v</i> .	to damage or spoil the appearance or surface of something
18.	absly obsessed with the girl	adv.	without restriction or limitation; completely or utterly
19.	live an abnt life	adj.	present in great quantity
20.	many trons of dollars	n.	the number 1,000,000,000,000; a million million
21.	aqr soil	n.	an underground layer of rock, sand, or Earth that can take in and hold water
22.	in ste condition	adj.	firm and steady; not easily moved, disturbed, or changed
23.	exe rebellion	<i>v</i> .	to make someone feel suddenly enthusiastic or eager
24.	spl a bit of wine	<i>v</i> .	to cause or allow liquid to run or flow over the edge of its container by accident
25.	exotic plants in a grese	n.	a building with walls and roof made chiefly of transparent material, such as glass, for growing plants in

ANSWERS: 13. definitely, 14. essential, 15. acidic, 16. universe, 17. mar, 18. absolutely, 19. abundant, 20. trillion, 21. aquifer, 22. stable, 23. excite, 24. spill, 25. greenhouse

26.	end of the first qur	n.	one of four equal parts; a fourth part or portion
27.	a qur mile	n.	one of four equal parts; a fourth part or portion
28.	subean rooms	adj.	under the ground
29.	exe weather events	adj.	very great in amount or degree
30.	sod employment measures	adj.	hard or firm; characterized by good substantial quality
31.	este a fair value	<i>v</i> .	to guess or calculate the cost, size, value, etc. of something
32.	ime pressure	adj.	extremely large or great
33.	envnt affairs	n.	the natural world such as air, water, and land in which humans, animals, and plants live
34.	fote situation	adj.	having good luck or lucky
35.	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
36.	lost in a hack	n.	a large mound of hay, usually stacked in a conical or cylindrical shape, used for animal feed or bedding
37.	necly true	adv.	in an essential manner; in such a way as could not be otherwise
38.	the great diry of the century	n.	the act or process of finding information a place, or an object, or learning about something that was previously not known

ANSWERS: 26. quarter, 27. quarter, 28. subterranean, 29. extreme, 30. solid, 31. estimate, 32. immense, 33. environment, 34. fortunate, 35. planet, 36. haystack, 37. necessarily, 38. discovery

ANSWERS: 39. greenhouse, 40. crust, 41. astrobiology, 42. Venus, 43. alien, 44. iceberg, 45. microbe, 46. erupt, 47. haystack, 48. discovery

known

something that was previously not

ANSWERS: 49. melt, 50. makeup, 51. makeup, 52. abundant, 53. sunshine, 54. droplet, 55. underground, 56. environment, 57. chemical, 58. creature, 59. thrive, 60. underground

specific purpose, such as overthrowing the government or occupying a force

ANSWERS: 61. twin, 62. tip, 63. essential, 64. exceed, 65. liquid, 66. mass, 67. mass, 68. immense, 69. coincidence, 70. necessarily

as could not be otherwise

ANSWERS: 71. tip, 72. fortunate, 73. extremophile, 74. carbon, 75. sunshine, 76. oxide, 77. galaxy, 78. astrobiology, 79. extremophile

pressure

inhospitable to most other forms of life, such as high heat, acidity, radiation, or

- 80. the ground be____h my feet
- 81. so__d ally
- 82. a ga___y of famous actors
- 83. be___h contempt
- 84. Jo n satellites
- 85. the or__t of the moon

- 86. ne e prick
- 87. leather b t
- 88. pe___t over time

- adv. in or to a lower place than someone or something
- adj. hard or firm; characterized by good substantial quality
- an independent group of stars,
 interstellar gas, dark matter, etc., in the universe, bound together by gravity
- adv. in or to a lower place than someone or something
- adj. relating to Jupiter or its characteristics
- 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
- a thin, pointed object typically used for sewing or medical purposes; a metal or plastic instrument used for administering injections or drawing blood
- v. to sing loudly and forcefully; to hit someone or something hard; (noun) a strip of leather or other material worn to tie or buckle something around the body
- v. to continue to do and refuse to stop something despite difficulties or opposition, even if it appears unreasonable

ANSWERS: 80. beneath, 81. solid, 82. galaxy, 83. beneath, 84. Jovian, 85. orbit, 86. needle, 87. belt, 88. persist

89. pe t in success to continue to do and refuse to stop ν. something despite difficulties or opposition, even if it appears unreasonable a specific area, region, or section that is 90. time z e n. marked off or defined in some way 91. th___e on pressure to grow vigorously; to make steady ν. progress 92. tr on cubic feet the number 1,000,000,000,000; a million million 93. m r the reputation to damage or spoil the appearance or surface of something 94. small mo____les a group of two or more atoms held n. together by attractive forces known as chemical bonds adj. having a pH lower than 7; having 95. ac___c taste characteristics of an acid, such as tasting sour or corroding metal an organized and often large-scale plan 96. draw out a sc___e n. or arrangement for doing something adj. stupid or not sensible; very angry 97. cr y about cars and racing 98. sub____ean motives for murder adj. under the ground the degree of hotness or coldness of a 99. the atmospheric tem____re n. thing or place 100. a pilot sc e an organized and often large-scale plan or arrangement for doing something the mass of air that surrounds the 101. carbon dioxide in the atm re n. Earth; the pervading tone or mood of a

ANSWERS: 89. persist, 90. zone, 91. thrive, 92. trillion, 93. mar, 94. molecule, 95. acidic, 96. scheme, 97. crazy, 98. subterranean, 99. temperature, 100. scheme, 101. atmosphere

place, situation, or creative work

a person who comes from a different 102. al n fungi n. country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere 103. subsurface aq____r an underground layer of rock, sand, or n. Earth that can take in and hold water a natural hot spring that periodically 104. Yellowstone ge r n. ejects a column of boiling water and steam into the air; a device that produces a similar effect for decorative or practical purposes 105. Jo___n planet adj. relating to Jupiter or its characteristics 106. the attraction of gr y the force that attracts a body towards n. the center of the earth or towards any other physical body having mass; a manner that is solemn 107. sewing ne e a thin, pointed object typically used for sewing or medical purposes; a metal or plastic instrument used for administering injections or drawing blood to move out of or away from something 108. em e from poverty and become visible 109. social di ce the amount of space between two n.

110. su e a plane crash event or period

ν.

points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as

distance or emotional distance

to live or exist despite a dangerous

ANSWERS: 102. alien, 103. aquifer, 104. geyser, 105. Jovian, 106. gravity, 107. needle, 108. emerge, 109. distance, 110. survive

111. driving dice	n.	the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance
112. sue as evidence	v.	to be enough or sufficient; to meet the needs or requirements of something or someone; to satisfy or fulfill a purpose
113. comion of structure	n.	something that makes a situation or condition that is complex or confused
114. enly satisfied with the meal	adv.	completely
115. a convivial atmre	n.	the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work
116. a way fluid	adj.	full of or containing water; wet
117. say defly	adv.	without any question and beyond doubt; clearly
118. have a ste job	adj.	firm and steady; not easily moved, disturbed, or changed
119. exd sales targets	ν.	to surpass or go beyond a limit, expectation, or requirement; to be better or greater than anticipated or desired
120. drt size	n.	a small drop of liquid
121. he was enly to blame	adv.	completely
122. thI energy	adj.	relating to heat or temperature; designed for or capable of producing or maintaining heat

ANSWERS: 111. distance, 112. suffice, 113. complication, 114. entirely, 115. atmosphere, 116. watery, 117. definitely, 118. stable, 119. exceed, 120. droplet, 121. entirely, 122. thermal

- 123. the coi____ce of an opinion
- 124. colorless li___d
- 125. combined ox__e
- 126. b_t him in the face
- 127. preserve my gr y
- 128. m t the ice
- 129. artificial cr re
- 130. a planetary or t

131. er t into tears

- an occasion when two or more similar things happen at the same time by chance, in a surprising way
- a substance, such as water or oil that flows freely and is neither a solid nor a gas
- a chemical compound that contains at least one oxygen atom and one other element
- v. to sing loudly and forcefully; to hit someone or something hard; (noun) a strip of leather or other material worn to tie or buckle something around the body
- n. the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn
- v. to turn from something solid into something soft or liquid as a result of heating
- n. a living being, especially an animal
- 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
- v. (of a volcano) to become active and eject rocks, smoke, etc.; to start abruptly and violently

ANSWERS: 123. coincidence, 124. liquid, 125. oxide, 126. belt, 127. gravity, 128. melt, 129. creature, 130. orbit, 131. erupt

132. a cry scheme	adj.	stupid or not sensible; very angry
133. solar aster	n.	a physicist who studies astronomy
134. exe the crowd	ν.	to make someone feel suddenly enthusiastic or eager
135. mole behavior	n.	a group of two or more atoms held together by attractive forces known as chemical bonds
136. a tn room	n.	either of two children born at the same time from the same mother
137. sue to live	ν.	to be enough or sufficient; to meet the needs or requirements of something or someone; to satisfy or fulfill a purpose
138. b_t on a race	ν.	to risk money on the result of an event or a competition, such as a race or game, to get more money; to have faith or confidence in something
139. este this chicken to weigh three pounds	v.	to guess or calculate the cost, size, value, etc. of something
140. eme as a butterfly	ν.	to move out of or away from something and become visible
141. pulmonary fie	n.	a narrow opening or crack, especially in a rock or other hard substance; a division or splitting within a group or organization
142. b_t my future	ν.	to risk money on the result of an event or a competition, such as a race or game, to get more money; to have faith or confidence in something

ANSWERS: 132. crazy, 133. astronomer, 134. excite, 135. molecule, 136. twin, 137. suffice, 138. bet, 139. estimate, 140. emerge, 141. fissure, 142. bet

143. vam cleaner	n.	a space empty of matter; a device or tool used for cleaning or removing debris by creating suction
144. amateur aster	n.	a physicist who studies astronomy
145. fie in the relationship	n.	a narrow opening or crack, especially in a rock or other hard substance; a division or splitting within a group or organization
146. erupting ger	n.	a natural hot spring that periodically ejects a column of boiling water and steam into the air; a device that produces a similar effect for decorative or practical purposes
147. surface of Ves	n.	the planet second in order from the sun
148. resolve without comion	n.	something that makes a situation or condition that is complex or confused
149. the earth's crt	n.	a hard outer layer that forms on the surface of a liquid as it cools or on a solid as a result of exposure to air or moisture
150. 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
151. water var in the atmosphere	n.	a mass of tiny liquid drops in the air
152. expansion of the unse	n.	everything that exists, especially all physical matter, including planets, stars galaxies, and all other forms of matter and energy

ANSWERS: 143. vacuum, 144. astronomer, 145. fissure, 146. geyser, 147. Venus, 148. complication, 149. crust, 150. planet, 151. vapor, 152. universe

153. sp__I my heart

154. go to a wa___y grave

- v. to cause or allow liquid to run or flow over the edge of its container by accident
- adj. full of or containing water; wet

ANSWERS: 153. spill, 154. watery

Session 3: Fill in the Blanks

1. I n.	will introduce some on learning English in this class. the top or extreme point of something slender or tapering, usually a mountain or hill; a piece of advice about something practical; a small amount of money given for services
2. T	he scratches on the car its otherwise perfect appearance.
<i>v</i> .	to damage or spoil the appearance or surface of something
3. E	Battles between whites and blacks immediately.
<i>v</i> .	(of a volcano) to become active and eject rocks, smoke, etc.; to start abruptly and violently
4. I	am opposed to his idea because of morality.
adv.	without restriction or limitation; completely or utterly
5. E	Every human is responsible for taking care of the Earth's
n.	the natural world such as air, water, and land in which humans, animals, and plants live
6. 5	Some areas melt snow by harnessing heat from underground
n.	an underground layer of rock, sand, or Earth that can take in and hold water
	Relations between the two countries have been relatively due to the ummit meeting.
adj.	firm and steady; not easily moved, disturbed, or changed
8. C	Ouring colonial eras, new migratory patterns
ν.	to move out of or away from something and become visible
	WERS: 1. tips, 2. marred, 3. erupted, 4. absolutely, 5. environment, 6. aquifers able, 8. emerged

ANSWERS: 51. gravity, 52. Jovian, 53. oxide, 54. icebergs, 55. exceeded, 56. definitely, 57. quarter, 58. atmosphere

ANSWERS: 75. acidic, 76. extreme, 77. twin