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Vocabulary Builder Reference from...

Fabio Pacucci: Could the Earth be swallowed by a black hole? | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

asteroid

n. a small rocky body orbiting the sun, typically in the region between Mars and Jupiter

synonym: minor planet, planetoid, rocky planetesimal

(1) **asteroid** mining, (2) **asteroid** explorer

Scientists are studying the composition and origins of the **asteroid** belt to understand the early solar system better.

destroy

v. to ruin or damage severely or completely; to eradicate or eliminate completely

synonym: demolish, ruin, obliterate

(1) **destroy** the ecosystem, (2) **destroyed** evidence

The building was **destroyed** in the fire and had to be rebuilt.

gamma

n. 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 energy

synonym: beam, light, glimmer

(1) opaque to X- **rays**, (2) effect of cosmic **rays**
Gamma **rays** penetrate body tissues and cause cell damage.

supernova

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

synonym: explosion, detonation, blast

(1) extragalactic **supernova**, (2) **supernova** remnant

The **supernova** explosion created a bright new star in the night sky.

exterminate

v. to destroy completely, often referring to the eradication of pests or weeds

synonym: eradicate, eliminate, wipe out

(1) **exterminate** pests, (2) **exterminate** communism

The government **exterminated** the invasive species to protect native plants and animals.

wreak

v. to cause or bring about something, often as a result of harmful or destructive actions or events

synonym: cause, inflict, bring about

(1) **wreak** a lot of changes, (2) **wreak** further damage

The virus has **wreaked** havoc on the healthcare system, overwhelming hospitals and causing shortages of supplies.

havoc

n. widespread destruction or devastation, often caused by natural disasters, war, or other violent events

synonym: destruction, devastation, ruin

(1) cause **havoc**, (2) play **havoc** in the mind

The storm wreaked **havoc** on the town, causing widespread damage and power outages.

planet

n. 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.

terrifying

adj. very frightening or intimidating

synonym : frightening, intimidating, alarming

(1) **terrifying** experience, (2) **terrifying** events

Large earthquakes often generate **terrifying** tsunamis.

wipe

v. to clean or dry something by rubbing with a piece of cloth or paper or one's hand and removing dirt, food, or liquid

synonym : clean, brush, swab

(1) **Wipe** off dirt, (2) **wipe** with water

Please **wipe** your sweat with this towel.

swallow

v. to make food, drink, pills, etc., pass down your throat into your stomach; (noun) small long-winged songbird noted for swift, graceful flight and the regularity of its migrations

synonym : consume, gulp, inhale

(1) **swallow** a handful of pills, (2) a **swallow** tail

I **swallowed** my anger and kept quiet.

dense

adj. containing a large number of people or something with little space between them

synonym : heavy, thick, idiotic

(1) nutrient- **dense** foods, (2) **dense** forests

The entire mountain is covered in **dense** rainforest.

inescapable

adj. impossible to avoid or evade

synonym : unavoidable, inevitable, ineluctable

(1) **inescapable** fate, (2) an **inescapable** position

The consequences of his actions were **inescapable**, and he had to face the consequences.

modify

v. to change something slightly, such as a plan, option, law, etc., especially to make it more suitable for a particular purpose

synonym : adjust, alter, revise

(1) genetically **modify** food, (2) **modify** my behavior

We use adverbs to **modify** verbs and adjectives.

warp

v. to twist or bend out of shape, especially as a result of being heated; to distort or twist the meaning or sense of something

synonym : twist, distort, deform

(1) **warp** under pressure, (2) become **warped**

The ship's hull was **warped** from years of use in rough seas.

infinite

adj. unlimited or very great; impossible to measure

synonym : boundless, countless, limitless

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

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

sink

v. to submerge or go down below the surface of a liquid or substance; to decline or deteriorate; to cause something to go down into a liquid substance or sink into something else

synonym : descend, drop, plummet

(1) **sink** a lot of capital, (2) **sink** a buzzer-beater

The abandoned ship slowly began to **sink** into the murky waters of the harbor.

gravitational

adj. relating to or caused by gravity (= the force that attracts objects towards one another)

synonym : weighty, heavy, earthbound

(1) **gravitational** energy, (2) **gravitational** waves

The **gravitational** force of the black hole was so strong that nothing, not even light, could escape.

boundary

n. a real or imaginary line that marks the limit or extent of something and separates it from other things or places

synonym : border, frontier, limitation

(1) geographical **boundary**, (2) the **boundary** between reality and fantasy

He wandered the **boundary** between life and death by gunfire.

horizon

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

synonym : skyline, view, visible boundary

(1) the event **horizon** of a black hole, (2) business **horizon**

As the sun set, the colors of the sky merged with the **horizon**, creating a beautiful orange and pink hue.

cosmic

adj. relating to the universe or cosmos; vast or limitless

synonym : astronomical, celestial, outer-space

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

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

vacuum

n. a space empty of matter; a device or tool used for cleaning or removing debris by creating suction

synonym : void, emptiness, gap

(1) **vacuum** cleaner, (2) **vacuum** packing

Please use the **vacuum** to clean up the mess on the floor.

gobble

v. to eat or swallow something hurriedly, noisily, and greedily; to make the sound of a male turkey

synonym : devour, gulp, swallow

(1) **gobble** down food, (2) **gobble** up the competition

I always **gobble** my breakfast quickly because I'm usually in a rush.

determinant

n. 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.

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.

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.

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.

immense

adj. extremely large or great

synonym: enormous, giant, huge

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

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

accelerate

v. to make something faster or earlier; to cause to develop or progress more quickly

synonym: speed up, quicken, rev

(1) **accelerate** a chemical reaction, (2) **accelerate** the car

The government tried to **accelerate** the commercialization of this development.

enormous

adj. extremely large or great

synonym : huge, giant, gigantic

(1) **enormous** amount, (2) **enormous** potential
Shakespeare's output of poetry was **enormous**.

massive

adj. enormous amount; very heavy and solid

synonym : enormous, giant, immense

(1) **massive** amounts, (2) **massive** stars

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

orbit

n. the path of an object around a celestial body, especially a planet, star, or moon, under the influence of gravity.

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**.

apparently

adv. based on what you have heard or read

synonym : evidently, obviously, supposedly

(1) **apparently** simple, (2) **apparently** unrelated

The police **apparently** believed this explanation was plausible.

similarly

adv. in almost the same way

synonym : also, likewise, ditto

(1) **similarly** situated, (2) have **similarly** great abilities

We argue that wages for temporary workers should **similarly** rise.

deflect

v. to cause something, especially a criticism or attack, to be directed away from someone

synonym : deter, redirect, sidetrack

(1) **deflect** a blow, (2) **deflect** his criticism

The soccer player was able to **deflect** the ball away from the goal.

phenomenon

n. something that exists and can be perceptible, especially one that is not fully understood

synonym: marvel, wonder, splendor

(1) natural **phenomenon**, (2) historical **phenomenon**

A rainbow is a natural **phenomenon**.

lens

n. a transparent optical device with curved sides, used in an optical instrument that makes objects seem larger, smaller, clearer, etc.; (metaphor) the basic thoughts or mindsets through which someone sees or understands the environment or situation

synonym: glass

(1) a convex **lens**, (2) a **lens** with a wide angle

The photographer took this photo using a telephoto **lens**.

stellar

adj. excellent; relating to or resembling a star, especially in quality or attractiveness

synonym: starry, celestial, astral

(1) **stellar** performance, (2) a **stellar** system

She received a **stellar** review from her boss, which boosted her confidence.

mass

n. 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.

consume

v. to spend something, especially fuel, energy, or time, in a large amount

synonym: absorb, ingest, use up

(1) **consume** a large of alcohol, (2) **consume** electricity

A smaller car will **consume** less fuel.

nuclear

adj. of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy

synonym : atomic

(1) **nuclear** fusion, (2) use of **nuclear** power

Many countries have now agreed to a treaty banning the use of **nuclear** weapons.

fuel

n. 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

core

n. the most essential or fundamental part of something

synonym : center, basis, heart

(1) the **core** of an apple, (2) **core** business activity

These gas nebulas are merely newborn galactic **cores**.

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.

light-year

n. a unit of distance used in astronomy to represent the distance that light travels in a year, which is equal to about 9.46 trillion kilometers or 5.88 trillion miles

(1) **light-year** distance, (2) billions of **light-years**

Proxima Centauri is the closest star to Earth, located about 4.24 **light-years** away.

galaxy

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

synonym : star cluster, nebula, star system

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

probable

adj. likely to happen or likely to be true

synonym: likely, possible, potential

(1) **probable** outcome, (2) **probable** cause of a fire

It seems **probable** that he has forgotten our scheduled meeting.

radial

adj. of or relating to rays or the radii of a circle; spreading out from a central point

synonym: concentric, central, spoke-like

(1) **radial** symmetry, (2) in a **radial** direction

The **radial** design of the wheel allows for maximum strength and stability.

minuscule

adj. extremely small; tiny

synonym: tiny, insignificant, microscopic

(1) **minuscule** amount, (2) **minuscule** letters

This ore emits **minuscule** quantities of radiation

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.

collision

n. an instance of two or more objects or entities crashing into each other, usually resulting in damage, impact, or conflict

synonym: crash, impact, smash

(1) **collision** detection, (2) come into **collision** with my friend

The **collision** of tectonic plates can result in new mountain ranges, such as the Himalayas or the Alps.

typical

adj. having the usual characteristics or traits of a specific group of things

synonym : characteristic, usual, distinctive

(1) **typical** leader, (2) fairly **typical** symptoms

This artwork is **typical** of her work.

dire

adj. extremely serious or urgent; critical, grave, or disastrous

synonym : serious, critical, desperate

(1) suffer **dire** poverty, (2) **dire** situation

The **dire** economic straits called for immediate action.

combination

n. a collection of things that have been combined; an assemblage of separate parts or qualities

synonym : blend, hybrid, compounding

(1) genic **combinations**, (2) **combination** number

The **combination** to the safe was a secret.

vast

adj. enormous in size, number, amount, or quantity

synonym : expansive, extended, boundless

(1) **vast** majority, (2) **vast** desert

A **vast** audience viewed the broadcast.

span

n. the entire length of something, such as time or space from beginning to end; the amount of space that something covers

synonym : interval, period, length

(1) the **span** of a bird's wings, (2) the average life **span**

He slightly modified the **span** of training because it was just before a match.

giant

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

synonym : big, gigantic, huge

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

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

proportion

n. a part, share, or amount of something considered in comparative relation to a whole

synonym: ratio, balance, consonance

(1) direct **proportion**, (2) a building of vast **proportions**

He is more concerned about the **proportion** of his body fat than usual because of an upcoming bodybuilding competition.

merge

v. to combine or integrate things, or to cause this to happen

synonym: combine, join, coalesce

(1) **merge** into a new party, (2) **merge** those systems into a new one

This consulting firm decided to **merge** the two companies into one.

cousin

n. the child of your aunt or uncle

synonym: relative

(1) cross- **cousin** marriage, (2) **cousin's** family

I used to play with my younger male **cousins** when I was a little girl.

wander

v. to walk around slowly or to a place, often without any clear purpose or direction

synonym: ramble, roam, stroll

(1) **wander** alone in a strange country, (2) **wander** far from home

I often **wander** around the park for half an hour.

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.

reside

v. to live in a particular place, typically for a prolonged period of time

synonym: live, dwell, inhabit

(1) **reside** on the skin, (2) **reside** permanently

They **reside** in a beautiful old house in the countryside.

collide

v. to hit something violently when moving

synonym: clash, slam, contradict

(1) **collide** head-on, (2) **collide** in midair

The interests of the two countries **collide**.

galactic

adj. relating to or concerning the galaxy or galaxies; having characteristics or qualities that are vast, extensive, or cosmic in scope

synonym: cosmic, celestial, enormous

(1) **galactic** scale, (2) a **galactic** system

The Milky Way is a **galactic** collection of billions of stars and planets.

eventually

adv. finally, particularly after a long time or a lot of struggle, complications, and so on

synonym: finally, someday, ultimately

(1) **eventually** become obsolete, (2) **eventually** succeed

The corporation **eventually** dominated the entire tobacco business.

predict

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

synonym: forecast, anticipate, foresee

(1) **predict** the future, (2) **predict** when she will arrive

It's notoriously challenging to **predict** birth rates.

judge

n. a person who makes decisions in a court of law; (verb) to determine the result of or form a critical opinion of

something

synonym: arbiter, justice, (verb) deduce

(1) **judge** a competition, (2) an associate **judge**

The strict **judge** ruled in favor of the plaintiff in the case.

harsh

adj. severe and unkind; extremely tough and unpleasant to inhabit

synonym: brutal, severe, backbreaking

(1) **harsh** climate, (2) use of **harsh** chemicals

The prime minister faced **harsh** criticism.

destruction

n. the act of causing so much damage to something

synonym: devastation, annihilation, ruin

(1) path of **destruction**, (2) cyclonic **destruction**

The extinction of several subspecies has been linked to climate change and habitat **destruction**.

crucial

adj. extremely vital or necessary

synonym: essential, pivotal, vital

(1) **crucial** information, (2) a **crucial** issue for women

The revitalization of technology companies is **crucial** to the country's growth.

universe

n. 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.

shadowy

adj. dark, dim, or vague, as if obscured by shadows; mysterious or uncertain

synonym: dim, dark, obscure

(1) **shadowy** doorway, (2) **shadowy** past

The **shadowy** figure in the corner of the room made me uneasy.

fundamental

adj. forming an essential base or core from which everything else develops or is affected

synonym : basic, essential, entire

(1) **fundamental** education, (2) **fundamental** rights

Human behavior has **fundamental** characteristics.

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.

astonishing

adj. surprising or shocking; difficult to believe

synonym : surprising, shocking, astounding

(1) **astonishing** achievement, (2) make **astonishing** gains

The news of her sudden death was **astonishing** to everyone who knew her.

Session 2: Spelling

1. su_____va 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
2. sw_____w a handful of pills *v.* to make food, drink, pills, etc., pass down your throat into your stomach; (noun) small long-winged songbird noted for swift, graceful flight and the regularity of its migrations
3. gi__t trees *adj.* enormous; much bigger or more important than similar items usually are
4. a planetary or__t *n.* the path of an object around a celestial body, especially a planet, star, or moon, under the influence of gravity.
5. d__e situation *adj.* extremely serious or urgent; critical, grave, or disastrous
6. the event ho_____n of a black hole *n.* the line at which the earth's surface and the sky appear to meet; the range of interest or activity that can be anticipated
7. ju__e a competition *n.* a person who makes decisions in a court of law; (verb) to determine the result of or form a critical opinion of something
8. re___e on the skin *v.* to live in a particular place, typically for a prolonged period of time
9. gra_____nal energy *adj.* relating to or caused by gravity (= the force that attracts objects towards one another)

ANSWERS: 1. supernova, 2. swallow, 3. giant, 4. orbit, 5. dire, 6. horizon, 7. judge, 8. reside, 9. gravitational

10. mi_____le letters *adj.* extremely small; tiny
11. save the pl____t *n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
12. mo____y my behavior *v.* to change something slightly, such as a plan, option, law, etc., especially to make it more suitable for a particular purpose
13. smokeless f__l *n.* a substance that is typically burned to generate heat or energy
14. business ho_____n *n.* the line at which the earth's surface and the sky appear to meet; the range of interest or activity that can be anticipated
15. pl____t 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
16. ob_____e a tradition *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
17. ty_____l leader *adj.* having the usual characteristics or traits of a specific group of things
18. co_____on detection *n.* an instance of two or more objects or entities crashing into each other, usually resulting in damage, impact, or conflict

ANSWERS: 10. minuscule, 11. planet, 12. modify, 13. fuel, 14. horizon, 15. planet, 16. observe, 17. typical, 18. collision

19. a ga____ic system *adj.* relating to or concerning the galaxy or galaxies; having characteristics or qualities that are vast, extensive, or cosmic in scope
20. biomass f__l *n.* a substance that is typically burned to generate heat or energy
21. ext____te communism *v.* to destroy completely, often referring to the eradication of pests or weeds
22. co___n's family *n.* the child of your aunt or uncle
23. genetically mo___y food *v.* to change something slightly, such as a plan, option, law, etc., especially to make it more suitable for a particular purpose
24. an ine____le position *adj.* impossible to avoid or evade
25. co___c background radiation *adj.* relating to the universe or cosmos; vast or limitless
26. as____id mining *n.* a small rocky body orbiting the sun, typically in the region between Mars and Jupiter
27. wa___r far from home *v.* to walk around slowly or to a place, often without any clear purpose or direction
28. come into co____on with my friend *n.* an instance of two or more objects or entities crashing into each other, usually resulting in damage, impact, or conflict
29. less fo____te person *adj.* having good luck or lucky
30. de____t his criticism *v.* to cause something, especially a criticism or attack, to be directed away from someone

ANSWERS: 19. galactic, 20. fuel, 21. exterminate, 22. cousin, 23. modify, 24. inescapable, 25. cosmic, 26. asteroid, 27. wander, 28. collision, 29. fortunate, 30. deflect

31. the s__n of a bird's wings *n.* the entire length of something, such as time or space from beginning to end; the amount of space that something covers
32. w__e with water *v.* to clean or dry something by rubbing with a piece of cloth or paper or one's hand and removing dirt, food, or liquid
33. gra_____nal waves *adj.* relating to or caused by gravity (= the force that attracts objects towards one another)
34. wr__k a lot of changes *v.* to cause or bring about something, often as a result of harmful or destructive actions or events
35. lig_____ar distance *n.* a unit of distance used in astronomy to represent the distance that light travels in a year, which is equal to about 9.46 trillion kilometers or 5.88 trillion miles
36. c__e business activity *n.* the most essential or fundamental part of something
37. de__e forests *adj.* containing a large number of people or something with little space between them
38. go___e down food *v.* to eat or swallow something hurriedly, noisily, and greedily; to make the sound of a male turkey
39. ra___l symmetry *adj.* of or relating to rays or the radii of a circle; spreading out from a central point
40. s__k a buzzer-beater *v.* to submerge or go down below the surface of a liquid or substance; to decline or deteriorate; to cause something to go down into a liquid substance or sink into something else

ANSWERS: 31. span, 32. wipe, 33. gravitational, 34. wreak, 35. light-year, 36. core, 37. dense, 38. gobble, 39. radial, 40. sink

41. wa___r alone in a strange country *v.* to walk around slowly or to a place, often without any clear purpose or direction
42. va___m packing *n.* a space empty of matter; a device or tool used for cleaning or removing debris by creating suction
43. fun_____al education *adj.* forming an essential base or core from which everything else develops or is affected
44. ha__h climate *adj.* severe and unkind; extremely tough and unpleasant to inhabit
45. s__k a lot of capital *v.* to submerge or go down below the surface of a liquid or substance; to decline or deteriorate; to cause something to go down into a liquid substance or sink into something else
46. driving di_____ce *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
47. go___e up the competition *v.* to eat or swallow something hurriedly, noisily, and greedily; to make the sound of a male turkey
48. acc_____te the car *v.* to make something faster or earlier; to cause to develop or progress more quickly
49. have si_____ly great abilities *adv.* in almost the same way
50. ob_____e wildlife *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

ANSWERS: 41. wander, 42. vacuum, 43. fundamental, 44. harsh, 45. sink, 46. distance, 47. gobble, 48. accelerate, 49. similarly, 50. observe

51. the c__e of an apple *n.* the most essential or fundamental part of something
52. environmental det_____nt *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
53. become w__ped *v.* to twist or bend out of shape, especially as a result of being heated; to distort or twist the meaning or sense of something
54. a sw_____w tail *v.* to make food, drink, pills, etc., pass down your throat into your stomach; (noun) small long-winged songbird noted for swift, graceful flight and the regularity of its migrations
55. a st_____r system *adj.* excellent; relating to or resembling a star, especially in quality or attractiveness
56. eve_____ly succeed *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
57. cyclonic des_____on *n.* the act of causing so much damage to something
58. co_____e in midair *v.* to hit something violently when moving
59. historical phe_____on *n.* something that exists and can be perceptible, especially one that is not fully understood
60. effect of cosmic r_ys *n.* a narrow line of light, heat, or another form of energy
61. im_____e pressure *adj.* extremely large or great

ANSWERS: 51. core, 52. determinant, 53. warp, 54. swallow, 55. stellar, 56. eventually, 57. destruction, 58. collide, 59. phenomenon, 60. ray, 61. immense

62. nu____r fusion *adj.* of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy
63. ma____e amounts *adj.* enormous amount; very heavy and solid
64. nutrient-de__e foods *adj.* containing a large number of people or something with little space between them
65. ga____ic scale *adj.* relating to or concerning the galaxy or galaxies; having characteristics or qualities that are vast, extensive, or cosmic in scope
66. me__e into a new party *v.* to combine or integrate things, or to cause this to happen
67. billions of lig____ars *n.* a unit of distance used in astronomy to represent the distance that light travels in a year, which is equal to about 9.46 trillion kilometers or 5.88 trillion miles
68. de____t a blow *v.* to cause something, especially a criticism or attack, to be directed away from someone
69. com____on number *n.* a collection of things that have been combined; an assemblage of separate parts or qualities
70. a convex l__s *n.* a transparent optical device with curved sides, used in an optical instrument that makes objects seem larger, smaller, clearer, etc.; (metaphor) the basic thoughts or mindsets through which someone sees or understands the environment or situation

ANSWERS: 62. nuclear, 63. massive, 64. dense, 65. galactic, 66. merge, 67. light-year, 68. deflect, 69. combination, 70. lens

71. as_____id explorer *n.* a small rocky body orbiting the sun, typically in the region between Mars and Jupiter
72. im_____e amount *adj.* extremely large or great
73. con_____te a large sum of money to the fund *v.* to give something, especially money or goods, to provide or achieve something together with other people
74. have a st____e job *adj.* firm and steady; not easily moved, disturbed, or changed
75. ine_____le fate *adj.* impossible to avoid or evade
76. second co____c velocity *adj.* relating to the universe or cosmos; vast or limitless
77. sh_____y doorway *adj.* dark, dim, or vague, as if obscured by shadows; mysterious or uncertain
78. en_____us amount *adj.* extremely large or great
79. w__p under pressure *v.* to twist or bend out of shape, especially as a result of being heated; to distort or twist the meaning or sense of something
80. app_____ly simple *adv.* based on what you have heard or read
81. acc_____te a chemical reaction *v.* to make something faster or earlier; to cause to develop or progress more quickly
82. the or__t of the moon *n.* the path of an object around a celestial body, especially a planet, star, or moon, under the influence of gravity.
83. opaque to X-r_ys *n.* a narrow line of light, heat, or another form of energy

ANSWERS: 71. asteroid, 72. immense, 73. contribute, 74. stable, 75. inescapable, 76. cosmic, 77. shadowy, 78. enormous, 79. warp, 80. apparently, 81. accelerate, 82. orbit, 83. ray

84. in st___e condition *adj.* firm and steady; not easily moved, disturbed, or changed
85. ter_____ng experience *adj.* very frightening or intimidating
86. mi_____le amount *adj.* extremely small; tiny
87. con_____te to society *v.* to give something, especially money or goods, to provide or achieve something together with other people
88. de_____y the ecosystem *v.* to ruin or damage severely or completely; to eradicate or eliminate completely
89. fo_____te situation *adj.* having good luck or lucky
90. path of des_____on *n.* the act of causing so much damage to something
91. the average life s__n *n.* the entire length of something, such as time or space from beginning to end; the amount of space that something covers
92. extragalactic su_____va *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
93. cr_____l information *adj.* extremely vital or necessary
94. ast_____ng achievement *adj.* surprising or shocking; difficult to believe
95. de_____yed evidence *v.* to ruin or damage severely or completely; to eradicate or eliminate completely

ANSWERS: 84. stable, 85. terrifying, 86. minuscule, 87. contribute, 88. destroy, 89. fortunate, 90. destruction, 91. span, 92. supernova, 93. crucial, 94. astonishing, 95. destroy

96. fairly ty_____l symptoms *adj.* having the usual characteristics or traits of a specific group of things
97. ga__a particles *n.* the third letter of the Greek alphabet; a type of radiation having the shortest wavelength and highest energy of electromagnetic waves
98. genic com_____ons *n.* a collection of things that have been combined; an assemblage of separate parts or qualities
99. expansion of the un_____se *n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
100. fun_____al rights *adj.* forming an essential base or core from which everything else develops or is affected
101. en_____us potential *adj.* extremely large or great
102. theory of the un_____se *n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
103. the stock market co_____sed *v.* to fall down or give way suddenly, often after breaking apart
104. gi__t tech company *adj.* enormous; much bigger or more important than similar items usually are
105. e__t air pollution *v.* to give off or send out something such as light, heat, sound, gas, etc.
106. co_____e electricity *v.* to spend something, especially fuel, energy, or time, in a large amount

ANSWERS: 96. typical, 97. gamma, 98. combination, 99. universe, 100. fundamental, 101. enormous, 102. universe, 103. collapse, 104. giant, 105. emit, 106. consume

107. geographical bo____ry *n.* a real or imaginary line that marks the limit or extent of something and separates it from other things or places
108. pr____t the future *v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience
109. a building of vast pro____ons *n.* a part, share, or amount of something considered in comparative relation to a whole
110. cause ha__c *n.* widespread destruction or devastation, often caused by natural disasters, war, or other violent events
111. an associate ju__e *n.* a person who makes decisions in a court of law; (verb) to determine the result of or form a critical opinion of something
112. suffer d__e poverty *adj.* extremely serious or urgent; critical, grave, or disastrous
113. app____ly unrelated *adv.* based on what you have heard or read
114. va__m cleaner *n.* a space empty of matter; a device or tool used for cleaning or removing debris by creating suction
115. ready to co____se *v.* to fall down or give way suddenly, often after breaking apart
116. pr____le outcome *adj.* likely to happen or likely to be true
117. co____e head-on *v.* to hit something violently when moving
118. v__t desert *adj.* enormous in size, number, amount, or quantity

ANSWERS: 107. boundary, 108. predict, 109. proportion, 110. havoc, 111. judge, 112. dire, 113. apparently, 114. vacuum, 115. collapse, 116. probable, 117. collide, 118. vast

119. si_____ly situated *adv.* in almost the same way
120. pr_____le cause of a fire *adj.* likely to happen or likely to be true
121. re____e permanently *v.* to live in a particular place, typically for a prolonged period of time
122. natural phe_____on *n.* something that exists and can be perceptible, especially one that is not fully understood
123. use of ha__h chemicals *adj.* severe and unkind; extremely tough and unpleasant to inhabit
124. in_____te appetite *adj.* unlimited or very great; impossible to measure
125. a cr_____l issue for women *adj.* extremely vital or necessary
126. ga__a radiation *n.* the third letter of the Greek alphabet; a type of radiation having the shortest wavelength and highest energy of electromagnetic waves
127. e__t a gamma ray *v.* to give off or send out something such as light, heat, sound, gas, etc.
128. st_____r performance *adj.* excellent; relating to or resembling a star, especially in quality or attractiveness
129. use of nu_____r power *adj.* of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy
130. co_____e a large of alcohol *v.* to spend something, especially fuel, energy, or time, in a large amount

ANSWERS: 119. similarly, 120. probable, 121. reside, 122. phenomenon, 123. harsh, 124. infinite, 125. crucial, 126. gamma, 127. emit, 128. stellar, 129. nuclear, 130. consume

131. play ha__c in the mind *n.* widespread destruction or devastation, often caused by natural disasters, war, or other violent events
132. direct pro_____on *n.* a part, share, or amount of something considered in comparative relation to a whole
133. in a ra___l direction *adj.* of or relating to rays or the radii of a circle; spreading out from a central point
134. me__e those systems into a new one *v.* to combine or integrate things, or to cause this to happen
135. sh_____y past *adj.* dark, dim, or vague, as if obscured by shadows; mysterious or uncertain
136. W__e off dirt *v.* to clean or dry something by rubbing with a piece of cloth or paper or one's hand and removing dirt, food, or liquid
137. eve_____ly become obsolete *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
138. social di_____ce *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
139. a det_____nt of crop yields *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
140. wr__k further damage *v.* to cause or bring about something, often as a result of harmful or destructive actions or events

ANSWERS: 131. havoc, 132. proportion, 133. radial, 134. merge, 135. shadowy, 136. wipe, 137. eventually, 138. distance, 139. determinant, 140. wreak

141. ext_____te pests *v.* to destroy completely, often referring to the eradication of pests or weeds
142. make ast_____ng gains *adj.* surprising or shocking; difficult to believe
143. a l__s with a wide angle *n.* a transparent optical device with curved sides, used in an optical instrument that makes objects seem larger, smaller, clearer, etc.; (metaphor) the basic thoughts or mindsets through which someone sees or understands the environment or situation
144. ter_____ng events *adj.* very frightening or intimidating
145. elliptic ga___y *n.* an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity
146. a m__s of molten rock *n.* a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together
147. cross-co___n marriage *n.* the child of your aunt or uncle
148. a ga___y of famous actors *n.* an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity
149. v__t majority *adj.* enormous in size, number, amount, or quantity
150. the bo_____ry between reality and fantasy *n.* a real or imaginary line that marks the limit or extent of something and separates it from other things or places

ANSWERS: 141. exterminate, 142. astonishing, 143. lens, 144. terrifying, 145. galaxy, 146. mass, 147. cousin, 148. galaxy, 149. vast, 150. boundary

151. pr____t when she will arrive

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

152. ma____e stars

adj. enormous amount; very heavy and solid

153. in____te in supply

adj. unlimited or very great; impossible to measure

154. critical m__s

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

ANSWERS: 151. predict, 152. massive, 153. infinite, 154. mass

Session 3: Fill in the Blanks

1. I often _____ around the park for half an hour.
v. to walk around slowly or to a place, often without any clear purpose or direction

2. A rainbow is a natural _____.
n. something that exists and can be perceptible, especially one that is not fully understood

3. Please use the _____ to clean up the mess on the floor.
n. a space empty of matter; a device or tool used for cleaning or removing debris by creating suction

4. It seems _____ that he has forgotten our scheduled meeting.
adj. likely to happen or likely to be true

5. He is more concerned about the _____ of his body fat than usual because of an upcoming bodybuilding competition.
n. a part, share, or amount of something considered in comparative relation to a whole

6. The interests of the two countries _____.
v. to hit something violently when moving

7. Scientists are studying the composition and origins of the _____ belt to understand the early solar system better.
n. a small rocky body orbiting the sun, typically in the region between Mars and Jupiter

ANSWERS: 1. wander, 2. phenomenon, 3. vacuum, 4. probable, 5. proportion, 6. collide, 7. asteroid

8. He left his wife an _____ fortune.

adj. extremely large or great

9. Relations between the two countries have been relatively _____ due to the summit meeting.

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

10. The _____ of people who do not own property is politically impotent.

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

11. Gamma _____ penetrate body tissues and cause cell damage.

n. a narrow line of light, heat, or another form of energy

12. The _____ jets gradually dominate the world's airlines.

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

13. The recent economic downturn has resulted in _____ layoffs.

adj. enormous amount; very heavy and solid

14. I used to play with my younger male _____ when I was a little girl.

n. the child of your aunt or uncle

15. A smaller car will _____ less fuel.

v. to spend something, especially fuel, energy, or time, in a large amount

16. The Milky Way is a _____ collection of billions of stars and planets.

adj. relating to or concerning the galaxy or galaxies; having characteristics or qualities that are vast, extensive, or cosmic in scope

ANSWERS: 8. immense, 9. stable, 10. mass, 11. rays, 12. giant, 13. massive, 14. cousins, 15. consume, 16. galactic

17. The _____ explosion created a bright new star in the night sky.
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
18. The _____ is about 13.8 billion years old.
n. everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
19. Mercury is the closest _____ to the sun.
n. any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
20. The extinction of several subspecies has been linked to climate change and habitat _____.
n. the act of causing so much damage to something
21. _____ rays are high-energy particles that originate from outside the solar system.
adj. relating to the universe or cosmos; vast or limitless
22. The entire mountain is covered in _____ rainforest.
adj. containing a large number of people or something with little space between them
23. The _____ figure in the corner of the room made me uneasy.
adj. dark, dim, or vague, as if obscured by shadows; mysterious or uncertain
24. Human behavior has _____ characteristics.
adj. forming an essential base or core from which everything else develops or is affected

ANSWERS: 17. supernova, 18. universe, 19. planet, 20. destruction, 21. Cosmic, 22. dense, 23. shadowy, 24. fundamental

25. The _____ of tectonic plates can result in new mountain ranges, such as the Himalayas or the Alps.
n. an instance of two or more objects or entities crashing into each other, usually resulting in damage, impact, or conflict
26. He was pretty _____ to pass the exam.
adj. having good luck or lucky
27. Government workers cannot _____ to political campaigns.
v. to give something, especially money or goods, to provide or achieve something together with other people
28. The corporation _____ dominated the entire tobacco business.
adv. finally, particularly after a long time or a lot of struggle, complications, and so on
29. The rocket engine is used to put the satellite into _____.
n. the path of an object around a celestial body, especially a planet, star, or moon, under the influence of gravity.
30. The ____ scarcity most severely impacted the manufacturing sector
n. a substance that is typically burned to generate heat or energy
31. This ore emits _____ quantities of radiation
adj. extremely small; tiny
32. This artwork is _____ of her work.
adj. having the usual characteristics or traits of a specific group of things

ANSWERS: 25. collision, 26. fortunate, 27. contribute, 28. eventually, 29. orbit, 30. fuel, 31. minuscule, 32. typical

33. Please ____ your sweat with this towel.

- v.* to clean or dry something by rubbing with a piece of cloth or paper or one's hand and removing dirt, food, or liquid

34. The abandoned ship slowly began to ____ into the murky waters of the harbor.

- v.* to submerge or go down below the surface of a liquid or substance; to decline or deteriorate; to cause something to go down into a liquid substance or sink into something else

35. The consequences of his actions were _____ and he had to face the consequences.

- adj.* impossible to avoid or evade

36. As the sun set, the colors of the sky merged with the _____ creating a beautiful orange and pink hue.

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

37. The _____ force of the black hole was so strong that nothing, not even light, could escape.

- adj.* relating to or caused by gravity (= the force that attracts objects towards one another)

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

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

39. The ____ economic straits called for immediate action.

- adj.* extremely serious or urgent; critical, grave, or disastrous

ANSWERS: 33. wipe, 34. sink, 35. inescapable, 36. horizon, 37. gravitational, 38. Gamma, 39. dire

40. The revitalization of technology companies is _____ to the country's growth.
adj. extremely vital or necessary
41. They _____ in a beautiful old house in the countryside.
v. to live in a particular place, typically for a prolonged period of time
42. The battle had an _____ impact on the nation.
adj. unlimited or very great; impossible to measure
43. The marathon runner covered a long _____ in a short amount of time.
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
44. It's notoriously challenging to _____ birth rates.
v. to state beforehand that something will happen in the future, mainly based on knowledge or experience
45. She received a _____ review from her boss, which boosted her confidence.
adj. excellent; relating to or resembling a star, especially in quality or attractiveness
46. This consulting firm decided to _____ the two companies into one.
v. to combine or integrate things, or to cause this to happen
47. I _____ my anger and kept quiet.
v. to make food, drink, pills, etc., pass down your throat into your stomach; (noun) small long-winged songbird noted for swift, graceful flight and the regularity of its migrations

ANSWERS: 40. crucial, 41. reside, 42. infinite, 43. distance, 44. predict, 45. stellar, 46. merge, 47. swallowed

48. It is important to _____ safety procedures in the workplace to prevent accidents.
- 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
49. The soccer player was able to _____ the ball away from the goal.
- v.* to cause something, especially a criticism or attack, to be directed away from someone
50. The prime minister faced _____ criticism.
- adj.* severe and unkind; extremely tough and unpleasant to inhabit
51. One _____ of success is having a positive attitude and a strong work ethic.
- n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
52. Many countries have now agreed to a treaty banning the use of _____ weapons.
- adj.* of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy
53. The government tried to _____ the commercialization of this development.
- v.* to make something faster or earlier; to cause to develop or progress more quickly
54. The virus has _____ havoc on the healthcare system, overwhelming hospitals and causing shortages of supplies.
- v.* to cause or bring about something, often as a result of harmful or destructive actions or events

ANSWERS: 48. observe, 49. deflect, 50. harsh, 51. determinant, 52. nuclear, 53. accelerate, 54. wreaked

55. A _____ audience viewed the broadcast.

adj. enormous in size, number, amount, or quantity

56. I always _____ my breakfast quickly because I'm usually in a rush.

v. to eat or swallow something hurriedly, noisily, and greedily; to make the sound of a male turkey

57. The storm wreaked _____ on the town, causing widespread damage and power outages.

n. widespread destruction or devastation, often caused by natural disasters, war, or other violent events

58. The ship's hull was _____ from years of use in rough seas.

v. to twist or bend out of shape, especially as a result of being heated; to distort or twist the meaning or sense of something

59. The _____ design of the wheel allows for maximum strength and stability.

adj. of or relating to rays or the radii of a circle; spreading out from a central point

60. These gas nebulas are merely newborn galactic _____.

n. the most essential or fundamental part of something

61. Proxima Centauri is the closest star to Earth, located about 4.24 _____ away.

n. a unit of distance used in astronomy to represent the distance that light travels in a year, which is equal to about 9.46 trillion kilometers or 5.88 trillion miles

62. The roof finally _____ after three days and three nights of heavy snowfall.

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

ANSWERS: 55. vast, 56. gobble, 57. havoc, 58. warped, 59. radial, 60. cores, 61. light-years, 62. collapsed

63. The police _____ believed this explanation was plausible.

adv. based on what you have heard or read

64. He slightly modified the _____ of training because it was just before a match.

n. the entire length of something, such as time or space from beginning to end; the amount of space that something covers

65. The _____ to the safe was a secret.

n. a collection of things that have been combined; an assemblage of separate parts or qualities

66. We use adverbs to _____ verbs and adjectives.

v. to change something slightly, such as a plan, option, law, etc., especially to make it more suitable for a particular purpose

67. We argue that wages for temporary workers should _____ rise.

adv. in almost the same way

68. During the unloading, the container box _____ a clicking sound.

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

69. The Milky Way _____ has numerous water-bearing planets.

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

70. Shakespeare's output of poetry was _____.

adj. extremely large or great

71. He wandered the _____ between life and death by gunfire.

n. a real or imaginary line that marks the limit or extent of something and separates it from other things or places

ANSWERS: 63. apparently, 64. span, 65. combination, 66. modify, 67. similarly, 68. emits, 69. galaxy, 70. enormous, 71. boundary

72. Large earthquakes often generate _____ tsunamis.

adj. very frightening or intimidating

73. The photographer took this photo using a telephoto _____.

n. a transparent optical device with curved sides, used in an optical instrument that makes objects seem larger, smaller, clearer, etc.; (metaphor) the basic thoughts or mindsets through which someone sees or understands the environment or situation

74. The strict _____ ruled in favor of the plaintiff in the case.

n. a person who makes decisions in a court of law; (verb) to determine the result of or form a critical opinion of something

75. The news of her sudden death was _____ to everyone who knew her.

adj. surprising or shocking; difficult to believe

76. The government _____ the invasive species to protect native plants and animals.

v. to destroy completely, often referring to the eradication of pests or weeds

77. The building was _____ in the fire and had to be rebuilt.

v. to ruin or damage severely or completely; to eradicate or eliminate completely

ANSWERS: 72. terrifying, 73. lens, 74. judge, 75. astonishing, 76. exterminated, 77. destroyed