# **Englist.me**

Vocabulary Builder Reference from...

Fabio Pacucci: Can a black hole be destroyed? | TED Talk https://www.ted.com/talks/fabio\_pacucci\_can\_a\_blac k\_hole\_be\_destroyed



#### All Words

#### IMPORTANT

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### Session 1: Word List

destructive	<i>adj.</i> causing or able to cause tremendous and irreparable damage
	synonym: destroying, harmful, disastrous
	(1) lead to <b>destructive</b> behavior, (2) a habit <b>destructive</b> to health
	It was the most <b>destructive</b> storm in decades.
universe	<ul> <li>everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy</li> <li>synonym: cosmos, macrocosm</li> </ul>
	(1) theory of the <b>universe</b> , (2) expansion of the <b>universe</b>
	The <b>universe</b> is about 13.8 billion years old.
singularity	<ul> <li>n. (of black holes) a point or region in space-time where the gravitational field is infinite, and matter and energy are infinitely dense; the state, fact, quality, or condition of being one of a kind</li> <li>synonym: black hole, individualism, uniqueness</li> </ul>
	(1) black hole <b>singularity</b> , (2) the <b>singularity</b> of the Divine
	Scientists have predicted that the universe will end in a
	<b>singularity,</b> where all matter will collapse into an infinitely dense point.

asteroid	<ul> <li>a small rocky body orbiting the sun, typically in the region between Mars and Jupiter</li> </ul>
	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.
planet	<ul> <li>any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star</li> </ul>
	synonym: earth, world, globe
	(1) <b>planet</b> like the Earth, (2) save the <b>planet</b>
	Mercury is the closest <b>planet</b> to the sun.
extreme	adj. very great in amount or degree
	synonym: farthermost, outermost, fierce
	(1) <b>extreme</b> sports, (2) <b>extreme</b> weather events
	Solar gravity creates <b>extreme</b> pressures and temperatures.
gravitational	<i>adj.</i> 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 <b>gravitational</b> force of the black hole was so strong that nothing, not even light, could escape.
horizon	<ul> <li>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</li> </ul>
	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.
disappear	<ul><li>v. to cease to exist or be visible</li><li>synonym: fade, evaporate, vanish</li></ul>
	(1) <b>disappear</b> without a trace, (2) <b>disappear</b> after a week

They watched the train **disappear** into the distance. to move out of or away from something and become emerge v. visible synonym: arise, occur, appear (1) **emerge** as a butterfly, (2) **emerge** from poverty During colonial eras, new migratory patterns **emerged**. a large amount of a substance with no definite shape or n. mass 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. to increase or to make something greater in size, expand v. number, or importance synonym: extend, grow, boost (1) expand a lineup, (2) expand agricultural output They hope to **expand** their business worldwide. 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. a series of actions or operations performed to achieve a n. process 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.

damage	<ul> <li>v. to harm or cause injury to something or someone, often resulting in decreased value or functionality; to impair or negatively affect something, such as a reputation or relationship; (noun) harm or injury that is caused to a person, thing, or entity</li> <li>synonym: harm, impair, injure</li> </ul>
	(1) damage a relationship, (2) damage assessment
	During the surgery, the doctor had to be extremely cautious
	not to <b>damage</b> a blood vessel.
destroy	<ul> <li>v. to ruin or damage severely or completely; to eradicate or eliminate completely</li> <li>synonym: demolish, ruin, obliterate</li> </ul>
	(1) <b>destroy</b> the ecosystem, (2) <b>destroyed</b> evidence
	The building was <b>destroyed</b> in the fire and had to be rebuilt.
merge	v. to combine or integrate things, or to cause this to happen
	synonym: combine, join, coalesce
	(1) <b>merge</b> into a new party, (2) <b>merge</b> those systems into a new one
	This consulting firm decided to <b>merge</b> the two companies into one.
release	<i>v.</i> to set free or allow to escape from confinement <i>synonym</i> : free, let go, discharge
	(1) <b>release</b> a prisoner, (2) <b>release</b> CO2 into the air
	The animal rights group worked to release the dolphins back
	into the wild.
eventually	adv. finally, particularly after a long time or a lot of struggle, complications, and so on
	synonym: finally, someday, ultimately
	(1) <b>eventually</b> become obsolete, (2) <b>eventually</b> succeed
	The corporation <b>eventually</b> dominated the entire tobacco

business.

consist	<ul><li>v. to be composed or made up of</li><li>synonym: lie in, comprise, exist</li></ul>
	<ol> <li>(1) consist mainly of cells, (2) consist only in knowing facts</li> <li>This examination consists of five problems to solve.</li> </ol>
	This examination <b>consists</b> of five problems to solve.
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 <b>entirely</b> false.
distant	<ul> <li>adj. far away in space, time, or where you are; far apart in relevance, relationship, or kinship</li> <li>synonym: far, isolated, remote</li> </ul>
	(1) a <b>distant</b> memory, (2) <b>distant</b> ancestors
	The sun set over the crest of <b>distant</b> hills.
evaporate	<ul> <li>v. to turn a liquid into a gas; to become less intense and disappear gradually</li> <li>synonym: vaporize, disappear, vanish</li> </ul>
	(1) evaporate the water, (2) evaporate almost overnight
	The sun will <b>evaporate</b> the mist.
hawk	<i>n.</i> a bird of prey typically having short rounded wings and a long tail; an advocate of an aggressive policy on foreign relations
	synonym: militarist, jingo, aggressor
	(1) cast off a <b>hawk</b> , (2) congressional <b>hawk</b>
	That team signed a center forward who was a ball- hawk.
gradual	<i>adj.</i> happening slowly over a long period of time or distance; not steep or abrupt
	synonym: incremental, gradational, piecemeal
	(1) a <b>gradual</b> process, (2) a <b>gradual</b> change

The country experienced a gradual increase in population.

radiation	<ul> <li>n. the energy that comes from a nuclear reaction in the form of rays, waves, or particles and that can be hazardous to health</li> <li>synonym: dissemination, emission, irradiation</li> </ul>
	(1) exposure to <b>radiation</b> , (2) electromagnetic <b>radiation</b> He tried every possible treatment, including chemotherapy and <b>radiation</b> therapy.
well-established	adj. firmly established and widely recognized; having a long history of success or acceptance in a particular field or industry
	synonym: recognized, conventional
	<ul><li>(1) well-established company, (2) well-established tradition</li></ul>
	The restaurant is well-established in the community, having
	been open for over 50 years.
phenomenon	<i>n.</i> something that exists and can be perceptible, especially one that is not fully understood
	synonym: marvel, wonder, splendor
	(1) natural <b>phenomenon</b> , (2) historical <b>phenomenon</b>
	A rainbow is a natural <b>phenomenon</b> .
quantum	n. the smallest amount or unit of something, especially (electromagnetic) energy
	(1) probabilistic <b>quantum</b> theory, (2) laws of <b>quantum</b> mechanics
	Big techs are now eager to develop <b>quantum</b> computers.
fluctuation	<ul> <li>n. a change, or the process of changing, that frequently happens, especially from one extreme to another; the quality of being unsteady and subject to changes</li> <li>synonym: change, instability, flux</li> </ul>
	(1) price fluctuations, (2) fluctuation of water level
	Temperature fluctuations are often milder in oceanfront

areas.

vacuum	<ul> <li>a space empty of matter; a device or tool used for cleaning or removing debris by creating suction</li> <li>synonym: void, emptiness, gap</li> </ul>
	(1) vacuum cleaner, (2) vacuum packing
	Please use the <b>vacuum</b> to clean up the mess on the floor.
accord	<ul> <li><i>n.</i> an official agreement or treaty between two organizations, countries, etc.; (verb) allow to have <i>synonym</i>: alliance, pact, agreement</li> </ul>
	(1) accord with public opinion, (2) binational accord
	The organization finally signed a peace <b>accord</b> .
mechanics	<ul> <li>n. the branch of physics that deals with the study of motion, forces, and energy; (mechanic) someone whose occupation is repairing and maintaining automobiles</li> <li>synonym: kinematics, dynamics</li> </ul>
	(1) mechanics equation, (2) mechanics of the game
	He studied <b>mechanics</b> in college and now works as an engineer.
spacetime	<i>n.</i> a four-dimensional continuum consisting of three dimensions of space and one dimension of time, used to describe the physical universe according to Einstein's theory of general relativity
	(1) <b>spacetime</b> continuum, (2) quantum <b>spacetime</b>
	The curvature of <b>spacetime</b> is affected by the presence of mass and energy.
fluctuate	<ul> <li>v. to rise and fall irregularly or unexpectedly; to vary or change often and unpredictably</li> <li>synonym: vary, oscillate, sway</li> </ul>
	(1) fluctuate prices, (2) fluctuate rapidly
	Stock prices <b>fluctuate</b> daily based on market demand and supply.

continuous	<i>adj.</i> occurring or existing without a pause or interruption <i>synonym</i> : ceaseless, regular, repeated
	(1) <b>continuous</b> improvement, (2) a <b>continuous</b> row of warehouses
	The heavy snow has been <b>continuous</b> since last morning.
destruction	<i>n.</i> the act of causing so much damage to something <i>synonym</i> : devastation, annihilation, ruin
	(1) path of <b>destruction</b> , (2) cyclonic <b>destruction</b>
	The extinction of several subspecies has been linked to
	climate change and habitat destruction.
virtual	<ul><li><i>adj.</i> being actually such in almost every respect; existing in essence or effect though not in actual fact</li><li><i>synonym</i>: practical</li></ul>
	(1) a <b>virtual</b> image, (2) trading of <b>virtual</b> currencies
	She is the <b>virtual</b> president of the company.
particle	<i>n.</i> 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 <b>particle</b> , (2) <b>particle</b> energy
	We can calculate the position of the <b>particles</b> statistically.
opposition	<i>n.</i> the act of disagreeing or resisting; the state of strong disagreement
	synonym: resistance, hostility, antagonism
	(1) <b>opposition</b> campaign, (2) meet with <b>opposition</b>
	The <b>opposition</b> party strongly disagreed with the
	government's proposed legislation.
antiparticle	<ul> <li><i>n</i>. a subatomic particle that has the same mass and opposite charge as its corresponding particle (e.g., a positron is the antiparticle of an electron)</li> <li><i>synonym</i>: opposite, antimatter, anti-substance</li> </ul>
	(1) antiparticle physics, (2) antiparticle collisions

When an **antiparticle** meets its corresponding particle, the two annihilate.

normally	<i>adv.</i> usually; under normal conditions <i>synonym</i> : commonly, generally, naturally
	(1) complete <b>normally</b> , (2) not <b>normally</b> drink much
	I don't <b>normally</b> take a vacation in the middle of summer.
collide	<i>v.</i> to hit something violently when moving <i>synonym</i> : clash, slam, contradict
	(1) <b>collide</b> head-on, (2) <b>collide</b> in midair
	The interests of the two countries <b>collide</b> .
annihilate	<ul> <li>v. to destroy completely; to cause something to cease to exist</li> </ul>
	synonym: destroy, obliterate, eradicate
	(1) annihilate the enemy, (2) annihilate all doubts
	The virus had the potential to <b>annihilate</b> entire populations if
	left unchecked.
preserve	<ul> <li>v. to keep or maintain a particular quality, feature, etc., especially to prevent it from decaying, being damaged, or being destroyed</li> <li>synonym: conserve, care for, maintain</li> </ul>
	(1) <b>preserve</b> my strength, (2) <b>preserve</b> a country's heritage
	They worked hard to <b>preserve</b> the nature of their native
	lands.
counterpart	<ul> <li><i>n</i>. a person or thing that corresponds to or has the same function as another person or thing</li> <li><i>synonym</i>: equivalent, analogue, match</li> </ul>
	(1) counterpart agreement, (2) negotiating counterpart
	His <b>counterpart</b> in the other company is responsible for marketing.

observer	<ul> <li>a person who watches or notices someone or something but has no active part in it</li> </ul>
	synonym: spectator, onlooker, watcher
	(1) a shrewd <b>observer</b> , (2) an <b>observer</b> in the region
	According to the theory of relativity, time is different for each
	observer.
emit	<ul> <li>v. to give off or send out something such as light, heat, sound, gas, etc.</li> </ul>
	synonym: give off, radiate, expel
	(1) <b>emit</b> a gamma ray, (2) <b>emit</b> air pollution
	During the unloading, the container box <b>emits</b> a clicking sound.
absorb	<i>v.</i> to take in a fluid or other substance gradually <i>synonym</i> : consume, soak, ingest
	(1) <b>absorb</b> energy, (2) <b>absorb</b> a shock
	The sponge <b>absorbs</b> water well.
addition	<i>n.</i> the act or process of adding something to something else; the process of adding numbers
	synonym: accumulation, expansion, addendum
	(1) chemical addition, (2) addition of vectors
	In addition, private corporations provide healthcare services.
excruciating	adj. extremely painful, intense, or distressing; causing great physical or emotional suffering
	synonym: agonizing, unbearable, torturous
	(1) <b>excruciating</b> ordeal, (2) <b>excruciating</b> embarrassment
	The <b>excruciating</b> pain in his ankle made it difficult to walk.
branch	<ul> <li>n. a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization</li> <li>synonym: limb, twig, bough</li> </ul>
	(1) <b>branch</b> office, (2) a <b>branch</b> pipe

The **branch** of the tree had fallen and blocked the road.

physics	<i>n.</i> the science of matter and energy and their interactions
	(1) nuclear <b>physics</b> , (2) laws of <b>physics</b>
	He studied the <b>physics</b> of radiation.
thermodynamics	<ul> <li>n. the area of physics that deals with heat, work, and temperature and their relation to energy, entropy, and the physical properties of matter and radiation</li> </ul>
	(1) applied <b>thermodynamics</b> , (2) the laws of
	thermodynamics
	The second law of <b>thermodynamics</b> denies the existence of a perpetual motion engine.
celestial	<i>adj.</i> 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 <b>celestial</b> bodies in the night sky were beautiful to behold.
environment	<ul> <li>n. the natural world such as air, water, and land in which humans, animals, and plants live</li> <li>synonym: atmosphere, surroundings, climate</li> </ul>
	(1) environment affairs, (2) chaotic environment
	Every human is responsible for taking care of the Earth's environment.
perceive	<ul> <li>v. to become aware or conscious of something through the senses</li> <li>synonym: sense, discern, feel</li> </ul>
	<ol> <li>(1) perceive a threat, (2) perceive light</li> <li>Australia is widely perceived as having low levels of corruption.</li> </ol>
emission	<i>n.</i> the act of production or sending out gas, heat, light, etc. <i>synonym</i> : emanation, radiation, discharge

	<ol> <li>global emissions of greenhouse gases, (2) the emission of light</li> </ol>
	There are five distinct <b>emissions</b> at five unique wavelengths.
temperature	<i>n.</i> the degree of hotness or coldness of a thing or place <i>synonym</i> : climate, warmth, degree
	(1) extreme <b>temperatures</b> , (2) the atmospheric <b>temperature</b>
	Cities around the world set records for highest <b>temperatures</b> this summer.
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.
define	<ul> <li>v. to state or explain precisely the nature, scope, or meaning of something</li> <li>synonym: characterize, depict, express</li> </ul>
	(1) <b>define</b> a word, (2) <b>define</b> my position
	To advance this discussion, we must <b>define</b> "success" rigorously.
massive	<i>adj.</i> enormous amount; very heavy and solid <i>synonym</i> : enormous, giant, immense
	(1) massive amounts, (2) massive stars
	The recent economic downturn has resulted in massive
	layoffs.
absolute	<i>adj.</i> perfect or complete or to the most considerable degree possible
	synonym: complete, infrangible, indisputable
	(1) <b>absolute</b> loyalty, (2) an <b>absolute</b> must
	Gandhi had an <b>absolute</b> zeal for nonviolence.

degree	<ul> <li>n. a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment</li> <li>synonym: level, qualification, diploma</li> </ul>
	(1) bachelor's <b>degree</b> , (2) <b>degree</b> centigrade
	She received her <b>degree</b> in psychology from the university.
breath	<ul> <li>n. the air that is taken into and expelled from your lungs; the process of taking into and expelling air from your lungs</li> <li>synonym: air, puff, whiff</li> </ul>
	(1) hold your <b>breath</b> , (2) <b>breath</b> of wind
	He bated his <b>breath</b> when talking about this affair.
accrete	<ul> <li>v. to accumulate or grow by gradual addition or accumulation; to form into a larger mass or body over time; to increase or expand naturally or organically</li> <li>synonym: accumulate, grow, build up</li> </ul>
	(1) accrete material, (2) accrete into a larger entity
	Over the years, the layers of sediment gradually accrete and
	form new rock formations.
magnitude	<i>n.</i> the extent, level, importance, or amount of something <i>synonym</i> : size, extent, level
	<ol> <li>a star of the first magnitude, (2) the magnitude of the disaster</li> </ol>
	The magnitude of the earthquake was measured at 7.8 on
	the Richter scale.
metric	<ul> <li>adj. using or relating to the meter as a unit of length; a system of related measures that facilitates the quantification of some particular characteristic</li> <li>synonym: metrical, measured</li> </ul>
	(1) <b>metric</b> units, (2) key performance <b>metrics</b>
	In the <b>metric</b> system, measurements are made in meters and liters.

increasingly	adv. more and more synonym: more and more, progressively
	(1) <b>increasingly</b> become common, (2) face <b>increasingly</b> complicated challenges
	Our company found it <b>increasingly</b> difficult to keep up with the competition.
observe	<ul> <li>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</li> </ul>
	synonym: watch, monitor, scrutinize
	(1) <b>observe</b> a tradition, (2) <b>observe</b> wildlife
	It is important to <b>observe</b> safety procedures in the workplace
	to prevent accidents.
gamma	<ul> <li>n. the third letter of the Greek alphabet; a type of radiation having the shortest wavelength and highest energy of electromagnetic waves</li> <li>synonym: ray, radiation, emission</li> </ul>
	(1) gamma radiation, (2) gamma particles
	<b>Gamma</b> rays are a type of high-energy radiation that can be harmful to living organisms.
ray	<i>n.</i> a narrow line of light, heat, or another form of energy <i>synonym</i> : beam, light, glimmer
	(1) opaque to X- rays, (2) effect of cosmic rays
	Gamma <b>rays</b> penetrate body tissues and cause cell damage.
flash	n. a sudden intense burst of radiant energy; a momentary brightness
	synonym: sparkle, gleam, glimmer
	(1) a <b>flash</b> of lightning, (2) brilliant <b>flash</b>
	These heavy rains caused <b>flash</b> floods on several islands.
detect	<ul> <li>v. to find or recognize something, especially something difficult to see, hear, etc.</li> </ul>

	synonym: catch, observe, notice
	(1) detect a bad event, (2) detect smuggling across borders
	The security camera has <b>detected</b> four intruders.
trace	<i>v.</i> to find or discover someone or something that was lost <i>synonym</i> : seek, follow, depict
	(1) <b>trace</b> a telephone call, (2) <b>trace</b> back to medieval times
	Let's trace the origins of some familiar foreign words.
primordial	<i>adj.</i> existing from the beginning of time or the start of a particular process; relating to the earliest stage of the universe
	synonym: ancient, original, primary
	(1) primordial forms of life, (2) primordial gas
	The discovery of the primordial soup was a crucial step in
	understanding the origins of life on Earth.
dawn	<ul> <li>n. the time of day when the sun's light starts to show in the sky</li> </ul>
	synonym: daybreak, sunrise, advent
	(1) the wan light of <b>dawn</b> , (2) crack of <b>dawn</b>
	Missile assaults on the capital continued around dawn.
inconceivable	adj. hard to imagine or believe
	synonym: unimaginable, impossible, unthinkable
	(1) inconceivable pain, (2) inconceivable ideas
	It would be <b>inconceivable</b> for him to alter his behavior.
terrifying	adj. very frightening or intimidating synonym: frightening, intimidating, alarming
	(1) terrifying experience, (2) terrifying events
	Large earthquakes often generate <b>terrifying</b> tsunamis.
impervious	<ul> <li>adj. unable to be affected by something; not allowing something to pass through, especially fluid; unresponsive or indifferent to criticism or persuasion</li> <li>synonym: impregnable, invulnerable, indestructible</li> </ul>

(1) <b>impervious</b> to criticism,	(2) <b>impervious</b> material
The jacket is <b>impervious</b> to	water and will keep you dry in
the rain.	

blaze	<ul> <li>v. to burst into flame or light up intensely; to move in a trailblazing manner; to shine brightly or conspicuously</li> <li>synonym: burn, flame, ignite</li> </ul>				
	(1) <b>blaze</b> a trail, (2) <b>blaze</b> with fury				
	The forest fire continued to <b>blaze</b> out of control, threatening nearby homes.				
glory	<i>n.</i> great honor or success won by notable achievements <i>synonym</i> : acclaim, credit, recognition				
	<ul><li>(1) greatest glory, (2) former glory</li><li>It is preferable to die in glory than to live in dishonor.</li></ul>				

# **Session 2: Spelling**

1.	antcle physics	n.	a subatomic particle that has the same mass and opposite charge as its corresponding particle (e.g., a positron is the antiparticle of an electron)
2.	decision-making prs	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
3.	key performance mecs	adj.	using or relating to the meter as a unit of length; a system of related measures that facilitates the quantification of some particular characteristic
4.	deyed evidence	v.	to ruin or damage severely or completely; to eradicate or eliminate completely
5.	crack of dn	n.	the time of day when the sun's light starts to show in the sky
6.	antcle collisions	n.	a subatomic particle that has the same mass and opposite charge as its corresponding particle (e.g., a positron is the antiparticle of an electron)
7.	the wan light of dn	n.	the time of day when the sun's light starts to show in the sky

ANSWERS: 1. antiparticle, 2. process, 3. metric, 4. destroy, 5. dawn, 6. antiparticle, 7. dawn

8.	annte the enemy	v.	to destroy completely; to cause something to cease to exist
9.	obe 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
10.	nuclear phs	n.	the science of matter and energy and their interactions
11.	prve my strength	v.	to keep or maintain a particular quality, feature, etc., especially to prevent it from decaying, being damaged, or being destroyed
12.	welhed company	adj.	firmly established and widely recognized; having a long history of success or acceptance in a particular field or industry
13.	mec units	adj.	using or relating to the meter as a unit of length; a system of related measures that facilitates the quantification of some particular characteristic
14.	extreme temres	n.	the degree of hotness or coldness of a thing or place
15.	mecs of the game	n.	the branch of physics that deals with the study of motion, forces, and energy; (mechanic) someone whose occupation is repairing and maintaining automobiles
16.	enly satisfied with the meal	adv.	completely

ANSWERS: 8. annihilate, 9. observe, 10. physics, 11. preserve, 12. well-established, 13. metric, 14. temperature, 15. mechanics, 16. entirely

17. the emon of light	n.	the act of production or sending out gas, heat, light, etc.
18. an abte must	adj.	perfect or complete or to the most considerable degree possible
19. incble ideas	adj.	hard to imagine or believe
20. excing embarrassment	adj.	extremely painful, intense, or distressing; causing great physical or emotional suffering
21. mee into a new party	v.	to combine or integrate things, or to cause this to happen
22. abb energy	v.	to take in a fluid or other substance gradually
23. exe sports	adj.	very great in amount or degree
24. natural pheon	n.	something that exists and can be perceptible, especially one that is not fully understood
25. chaotic envnt	n.	the natural world such as air, water, and land in which humans, animals, and plants live
26. diar after a week	<i>v</i> .	to cease to exist or be visible
27. vam packing	n.	a space empty of matter; a device or tool used for cleaning or removing debris by creating suction
28. lead to desve behavior	adj.	causing or able to cause tremendous and irreparable damage
29. cast off a hk	n.	a bird of prey typically having short rounded wings and a long tail; an advocate of an aggressive policy on foreign relations

ANSWERS: 17. emission, 18. absolute, 19. inconceivable, 20. excruciating, 21. merge, 22. absorb, 23. extreme, 24. phenomenon, 25. environment, 26. disappear, 27. vacuum, 28. destructive, 29. hawk

30. the atmospheric temre	n.	the degree of hotness or coldness of a thing or place
31. electromagnetic raon	n.	the energy that comes from a nuclear reaction in the form of rays, waves, or particles and that can be hazardous to health
32. quantum spme	n.	a four-dimensional continuum consisting of three dimensions of space and one dimension of time, used to describe the physical universe according to Einstein's theory of general relativity
33. ceal bliss	adj.	relating to the sky or the heavens; of or like the sky or the heavens
34. cot only in knowing facts	ν.	to be composed or made up of
35. brh of wind	n.	the air that is taken into and expelled from your lungs; the process of taking into and expelling air from your lungs
36. dey the ecosystem	v.	to ruin or damage severely or completely; to eradicate or eliminate completely
37. envnt affairs	n.	the natural world such as air, water, and land in which humans, animals, and plants live
38. critical ms	n.	a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together
39. mae stars	adj.	enormous amount; very heavy and solid

ANSWERS: 30. temperature, 31. radiation, 32. spacetime, 33. celestial, 34. consist, 35. breath, 36. destroy, 37. environment, 38. mass, 39. massive

40. a dit memory	<i>adj.</i> far away in space, time, or where you are; far apart in relevance, relationship, or kinship
41. et air pollution	<ul> <li>v. to give off or send out something such as light, heat, sound, gas, etc.</li> </ul>
42. theory of the unse	<ul> <li>everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy</li> </ul>
43. the laws of theics	<ul> <li>n. the area of physics that deals with heat, work, and temperature and their relation to energy, entropy, and the physical properties of matter and radiation</li> </ul>
44. dee a word	<ul> <li>v. to state or explain precisely the nature, scope, or meaning of something</li> </ul>
45. ree a prisoner	v. to set free or allow to escape from confinement
46. ble a trail	<ul> <li>v. to burst into flame or light up intensely;</li> <li>to move in a trailblazing manner; to shine brightly or conspicuously</li> </ul>
47. granal waves	<ul> <li>adj. relating to or caused by gravity (= the force that attracts objects towards one another)</li> </ul>
48. tre a telephone call	<ul> <li>v. to find or discover someone or something that was lost</li> </ul>
49. exposure to raon	<ul> <li>n. the energy that comes from a nuclear reaction in the form of rays, waves, or particles and that can be hazardous to health</li> </ul>

ANSWERS: 40. distant, 41. emit, 42. universe, 43. thermodynamics, 44. define, 45. release, 46. blaze, 47. gravitational, 48. trace, 49. radiation

50. coe head-on	ν.	to hit something violently when moving
51. historical pheon	n.	something that exists and can be perceptible, especially one that is not fully understood
52. cyclonic deson	n.	the act of causing so much damage to something
53. dee my position	ν.	to state or explain precisely the nature, scope, or meaning of something
54. cot mainly of cells	<i>v</i> .	to be composed or made up of
55. eme as a butterfly	v.	to move out of or away from something and become visible
56. mee those systems into a new one	v.	to combine or integrate things, or to cause this to happen
57. acd with public opinion	n.	an official agreement or treaty between two organizations, countries, etc.; (verb) allow to have
58. peve light	ν.	to become aware or conscious of something through the senses
59. welhed tradition	adj.	firmly established and widely recognized; having a long history of success or acceptance in a particular field or industry
60. ree CO2 into the air	v.	to set free or allow to escape from confinement
61. impus material	adj.	unable to be affected by something; not allowing something to pass through, especially fluid; unresponsive or indifferent to criticism or persuasion

ANSWERS: 50. collide, 51. phenomenon, 52. destruction, 53. define, 54. consist, 55. emerge, 56. merge, 57. accord, 58. perceive, 59. well-established, 60. release, 61. impervious

62.	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
63.	bachelor's dee	n.	a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment
64.	flte prices	<i>v</i> .	to rise and fall irregularly or unexpectedly; to vary or change often and unpredictably
65.	expansion of the unse	n.	everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
66.	a habit desve to health	adj.	causing or able to cause tremendous and irreparable damage
67.	adon of vectors	n.	the act or process of adding something to something else; the process of adding numbers
68.	abte loyalty	adj.	perfect or complete or to the most considerable degree possible
69.	effect of cosmic r_ys	n.	a narrow line of light, heat, or another form of energy
70.	asid explorer	n.	a small rocky body orbiting the sun, typically in the region between Mars and Jupiter
71.	global emons of greenhouse gases	n.	the act of production or sending out gas, heat, light, etc.

ANSWERS: 62. planet, 63. degree, 64. fluctuate, 65. universe, 66. destructive, 67. addition, 68. absolute, 69. ray, 70. asteroid, 71. emission

72. ceal navigation	adj.	relating to the sky or the heavens; of or like the sky or the heavens
73. gaa radiation	n.	the third letter of the Greek alphabet; a type of radiation having the shortest wavelength and highest energy of electromagnetic waves
74. et a gamma ray	v.	to give off or send out something such as light, heat, sound, gas, etc.
75. former gly	n.	great honor or success won by notable achievements
76. laws of qum mechanics	n.	the smallest amount or unit of something, especially (electromagnetic) energy
77. terng events	adj.	very frightening or intimidating
78. an ober in the region	n.	a person who watches or notices someone or something but has no active part in it
79. incble pain	adj.	hard to imagine or believe
80. evely succeed	adv.	finally, particularly after a long time or a lot of struggle, complications, and so on
81. exe weather events	adj.	very great in amount or degree
82. granal energy	adj.	relating to or caused by gravity (= the force that attracts objects towards one another)
83. dae assessment	v.	to harm or cause injury to something or someone, often resulting in decreased value or functionality; to impair or negatively affect something, such as a reputation or relationship; (noun) harm or injury that is caused to a person, thing, or entity

ANSWERS: 72. celestial, 73. gamma, 74. emit, 75. glory, 76. quantum, 77. terrifying, 78. observer, 79. inconceivable, 80. eventually, 81. extreme, 82. gravitational, 83. damage

84. exd agricultural output	v.	to increase or to make something greater in size, number, or importance
85. ble with fury	v.	to burst into flame or light up intensely; to move in a trailblazing manner; to shine brightly or conspicuously
86. prve a country's heritage	v.	to keep or maintain a particular quality, feature, etc., especially to prevent it from decaying, being damaged, or being destroyed
87. abb a shock	v.	to take in a fluid or other substance gradually
88. conus improvement	adj.	occurring or existing without a pause or interruption
89. peve a threat	ν.	to become aware or conscious of something through the senses
90. in a raI direction	adj.	of or relating to rays or the radii of a circle; spreading out from a central point
91. laws of phs	n.	the science of matter and energy and their interactions
92. ace material	v.	to accumulate or grow by gradual addition or accumulation; to form into a larger mass or body over time; to increase or expand naturally or organically
93. prs improvement	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: 84. expand, 85. blaze, 86. preserve, 87. absorb, 88. continuous, 89. perceive, 90. radial, 91. physics, 92. accrete, 93. process

94. not noly drink much	adv	usually; under normal conditions
95. probabilistic qum theory	n.	the smallest amount or unit of something, especially (electromagnetic) energy
96. binational acd	n.	an official agreement or treaty between two organizations, countries, etc.; (verb) allow to have
97. flte rapidly	v.	to rise and fall irregularly or unexpectedly; to vary or change often and unpredictably
98. a grl change	adj.	happening slowly over a long period of time or distance; not steep or abrupt
99. prial forms of life	adj.	existing from the beginning of time or the start of a particular process; relating to the earliest stage of the universe
100. a brh pipe	n.	a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization
101. applied theics	n.	the area of physics that deals with heat, work, and temperature and their relation to energy, entropy, and the physical properties of matter and radiation
102. brh office	n.	a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization
103. evely become obsolete	adv	finally, particularly after a long time or a lot of struggle, complications, and so on

ANSWERS: 94. normally, 95. quantum, 96. accord, 97. fluctuate, 98. gradual, 99. primordial, 100. branch, 101. thermodynamics, 102. branch, 103. eventually

104. vam cleaner	n.	a space empty of matter; a device or tool used for cleaning or removing debris by creating suction
105. the sinty of the Divine	n.	(of black holes) a point or region in space-time where the gravitational field is infinite, and matter and energy are infinitely dense; the state, fact, quality, or condition of being one of a kind
106. diar without a trace	ν.	to cease to exist or be visible
107. court agreement	n.	a person or thing that corresponds to or has the same function as another person or thing
108. mecs equation	n.	the branch of physics that deals with the study of motion, forces, and energy; (mechanic) someone whose occupation is repairing and maintaining automobiles
109. ace into a larger entity	v.	to accumulate or grow by gradual addition or accumulation; to form into a larger mass or body over time; to increase or expand naturally or organically
110. dee centigrade	n.	a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment
111. 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

ANSWERS: 104. vacuum, 105. singularity, 106. disappear, 107. counterpart, 108. mechanics, 109. accrete, 110. degree, 111. planet

112. terng experience	adj.	very frightening or intimidating
113. prial gas	adj.	existing from the beginning of time or the start of a particular process; relating to the earliest stage of the universe
114. obe 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
115. a star of the first made	n.	the extent, level, importance, or amount of something
116. spme continuum	n.	a four-dimensional continuum consisting of three dimensions of space and one dimension of time, used to describe the physical universe according to Einstein's theory of general relativity
117. a conus row of warehouses	adj.	occurring or existing without a pause or interruption
118. gaa particles	n.	the third letter of the Greek alphabet; a type of radiation having the shortest wavelength and highest energy of electromagnetic waves
119. congressional hk	n.	a bird of prey typically having short rounded wings and a long tail; an advocate of an aggressive policy on foreign relations
120. the made of the disaster	n.	the extent, level, importance, or amount of something

ANSWERS: 112. terrifying, 113. primordial, 114. observe, 115. magnitude, 116. spacetime, 117. continuous, 118. gamma, 119. hawk, 120. magnitude

121. black hole sinty	n.	(of black holes) a point or region in space-time where the gravitational field is infinite, and matter and energy are infinitely dense; the state, fact, quality, or condition of being one of a kind
122. a grl process	adj.	happening slowly over a long period of time or distance; not steep or abrupt
123. hold your brh	n.	the air that is taken into and expelled from your lungs; the process of taking into and expelling air from your lungs
124. a shrewd ober	n.	a person who watches or notices someone or something but has no active part in it
125. incgly become common	adv.	more and more
126. det a bad event	v.	to find or recognize something, especially something difficult to see, hear, etc.
127. charged pale	n.	a small piece of something; a word or piece of a term with grammatical function but little or no significance
128. dit ancestors	adj.	far away in space, time, or where you are; far apart in relevance, relationship, or kinship
129. det smuggling across borders	v.	to find or recognize something, especially something difficult to see, hear, etc.
130. coe in midair	v.	to hit something violently when moving
131. price fluons	n.	a change, or the process of changing, that frequently happens, especially from one extreme to another; the quality of being unsteady and subject to changes

ANSWERS: 121. singularity, 122. gradual, 123. breath, 124. observer, 125. increasingly, 126. detect, 127. particle, 128. distant, 129. detect, 130. collide, 131. fluctuation

132. fluon of water level	n.	a change, or the process of changing, that frequently happens, especially from one extreme to another; the quality of being unsteady and subject to changes
133. impus to criticism	adj.	unable to be affected by something; not allowing something to pass through, especially fluid; unresponsive or indifferent to criticism or persuasion
134. tre back to medieval times	v.	to find or discover someone or something that was lost
135. sily situated	adv	in almost the same way
136. evte the water	v.	to turn a liquid into a gas; to become less intense and disappear gradually
137. chemical adon	n.	the act or process of adding something to something else; the process of adding numbers
138. asid mining	n.	a small rocky body orbiting the sun, typically in the region between Mars and Jupiter
139. greatest gly	n.	great honor or success won by notable achievements
140. trading of vil currencies	adj.	being actually such in almost every respect; existing in essence or effect though not in actual fact
141. business hon	n.	the line at which the earth's surface and the sky appear to meet; the range of interest or activity that can be anticipated
142. have sily great abilities	adv	in almost the same way

ANSWERS: 132. fluctuation, 133. impervious, 134. trace, 135. similarly, 136. evaporate, 137. addition, 138. asteroid, 139. glory, 140. virtual, 141. horizon, 142. similarly

143. a flh of lightning	n.	a sudden intense burst of radiant energy; a momentary brightness
144. a vil image	adj.	being actually such in almost every respect; existing in essence or effect though not in actual fact
145. face incgly complicated challenges	adv.	more and more
146. a ms 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. path of deson	n.	the act of causing so much damage to something
148. complete noly	adv.	usually; under normal conditions
149. brilliant flh	n.	a sudden intense burst of radiant energy; a momentary brightness
150. the event hon of a black hole	n.	the line at which the earth's surface and the sky appear to meet; the range of interest or activity that can be anticipated
151. he was enly to blame	adv.	completely
152. raI symmetry	adj.	of or relating to rays or the radii of a circle; spreading out from a central point
153. excing ordeal	adj.	extremely painful, intense, or distressing; causing great physical or emotional suffering
154. evte almost overnight	ν.	to turn a liquid into a gas; to become less intense and disappear gradually

ANSWERS: 143. flash, 144. virtual, 145. increasingly, 146. mass, 147. destruction, 148. normally, 149. flash, 150. horizon, 151. entirely, 152. radial, 153. excruciating, 154. evaporate

155. oppon campaign	n.	the act of disagreeing or resisting; the state of strong disagreement
156. meet with oppon	n.	the act of disagreeing or resisting; the state of strong disagreement
157. annte all doubts	v.	to destroy completely; to cause something to cease to exist
158. exd a lineup	v.	to increase or to make something greater in size, number, or importance
159. dae a relationship	v.	to harm or cause injury to something or someone, often resulting in decreased value or functionality; to impair or negatively affect something, such as a reputation or relationship; (noun) harm or injury that is caused to a person, thing, or entity
160. opaque to X-r_ys	n.	a narrow line of light, heat, or another form of energy
161. eme from poverty	v.	to move out of or away from something and become visible
162. pale energy	n.	a small piece of something; a word or piece of a term with grammatical function but little or no significance
163. mae amounts	adj.	enormous amount; very heavy and solid
164. negotiating court	n.	a person or thing that corresponds to or has the same function as another person or thing

ANSWERS: 155. opposition, 156. opposition, 157. annihilate, 158. expand, 159. damage, 160. ray, 161. emerge, 162. particle, 163. massive, 164. counterpart

## Session 3: Fill in the Blanks

- 1. Missile assaults on the capital continued around \_\_\_\_\_.
- *n.* the time of day when the sun's light starts to show in the sky
- 2. The \_\_\_\_\_\_ pain in his ankle made it difficult to walk.
- *adj.* extremely painful, intense, or distressing; causing great physical or emotional suffering
- 3. Gandhi had an \_\_\_\_\_ zeal for nonviolence.
- *adj.* perfect or complete or to the most considerable degree possible
- 4. We argue that wages for temporary workers should \_\_\_\_\_\_ rise. *adv.* in almost the same way
- 5. The security camera has \_\_\_\_\_\_ four intruders.
- *v.* to find or recognize something, especially something difficult to see, hear, etc.
- 6. This consulting firm decided to \_\_\_\_\_ the two companies into one.
- *v*. to combine or integrate things, or to cause this to happen
- 7. They watched the train \_\_\_\_\_ into the distance.
- *v*. to cease to exist or be visible
- 8. Big techs are now eager to develop \_\_\_\_\_ computers.
- *n.* the smallest amount or unit of something, especially (electromagnetic) energy
- 9. She is the \_\_\_\_\_ president of the company.
- *adj.* being actually such in almost every respect; existing in essence or effect though not in actual fact

ANSWERS: 1. dawn, 2. excruciating, 3. absolute, 4. similarly, 5. detected, 6. merge, 7. disappear, 8. quantum, 9. virtual

- 10. The animal rights group worked to \_\_\_\_\_\_ the dolphins back into the wild.
- *v.* to set free or allow to escape from confinement
- 11. I don't \_\_\_\_\_\_ take a vacation in the middle of summer.
- *adv.* usually; under normal conditions
- 12. This examination \_\_\_\_\_\_ of five problems to solve.
- *v.* to be composed or made up of
- 13. During the surgery, the doctor had to be extremely cautious not to \_\_\_\_\_ a blood vessel.
  - v. to harm or cause injury to something or someone, often resulting in decreased value or functionality; to impair or negatively affect something, such as a reputation or relationship; (noun) harm or injury that is caused to a person, thing, or entity
- 14. He tried every possible treatment, including chemotherapy and \_\_\_\_\_\_ therapy.
- *n.* the energy that comes from a nuclear reaction in the form of rays, waves, or particles and that can be hazardous to health
- 15. Solar gravity creates \_\_\_\_\_ pressures and temperatures.
  - *adj.* very great in amount or degree
- 16. That team signed a center forward who was a ball-\_\_\_\_.
- *n.* a bird of prey typically having short rounded wings and a long tail; an advocate of an aggressive policy on foreign relations
- 17. During colonial eras, new migratory patterns \_\_\_\_\_.
- *v.* to move out of or away from something and become visible

ANSWERS: 10. release, 11. normally, 12. consists, 13. damage, 14. radiation, 15. extreme, 16. hawk, 17. emerged

- 18. During the unloading, the container box \_\_\_\_\_ a clicking sound.
- *v.* to give off or send out something such as light, heat, sound, gas, etc.
- 19. It would be \_\_\_\_\_\_ for him to alter his behavior.
- *adj.* hard to imagine or believe
- 20. Cities around the world set records for highest \_\_\_\_\_\_ this summer.
- *n.* the degree of hotness or coldness of a thing or place
- 21. The sponge \_\_\_\_\_ water well.
- *v.* to take in a fluid or other substance gradually
- 22. 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
- 23. It is preferable to die in \_\_\_\_\_ than to live in dishonor.
- *n.* great honor or success won by notable achievements
- 24. 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
- 25. The interests of the two countries \_\_\_\_\_.
- *v*. to hit something violently when moving
- 26. The \_\_\_\_\_\_ for applying for a visa can be lengthy and complicated.
- *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: 18. emits, 19. inconceivable, 20. temperatures, 21. absorbs, 22. planet, 23. glory, 24. horizon, 25. collide, 26. process

- 27. It was the most \_\_\_\_\_\_ storm in decades.
  - *adj.* causing or able to cause tremendous and irreparable damage
- 28. He bated his \_\_\_\_\_ when talking about this affair.
- *n*. the air that is taken into and expelled from your lungs; the process of taking into and expelling air from your lungs
- 29. Our company found it \_\_\_\_\_\_ difficult to keep up with the competition.

adv. more and more

- 30. 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)
- 31. Over the years, the layers of sediment gradually \_\_\_\_\_ and form new rock formations.
- *v.* to accumulate or grow by gradual addition or accumulation; to form into a larger mass or body over time; to increase or expand naturally or organically
- 32. Australia is widely \_\_\_\_\_\_ as having low levels of corruption.
- *v*. to become aware or conscious of something through the senses
- 33. 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
- 34. When an \_\_\_\_\_\_ meets its corresponding particle, the two annihilate.
- *n.* a subatomic particle that has the same mass and opposite charge as its corresponding particle (e.g., a positron is the antiparticle of an electron)

ANSWERS: 27. destructive, 28. breath, 29. increasingly, 30. gravitational, 31. accrete, 32. perceived, 33. vacuum, 34. antiparticle

- 35. According to the theory of relativity, time is different for each \_\_\_\_\_\_.
- *n.* a person who watches or notices someone or something but has no active part in it
- 36. 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
- 37. The organization finally signed a peace \_\_\_\_\_.
- *n.* an official agreement or treaty between two organizations, countries, etc.; (verb) allow to have
- 38. The recent economic downturn has resulted in \_\_\_\_\_ layoffs.
- adj. enormous amount; very heavy and solid
- 39. The second law of \_\_\_\_\_\_ denies the existence of a perpetual motion engine.
- *n.* the area of physics that deals with heat, work, and temperature and their relation to energy, entropy, and the physical properties of matter and radiation
- 40. 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
- 41. They worked hard to \_\_\_\_\_\_ the nature of their native lands.
- v. to keep or maintain a particular quality, feature, etc., especially to prevent it from decaying, being damaged, or being destroyed
- 42. 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: 35. observer, 36. radial, 37. accord, 38. massive, 39. thermodynamics, 40. environment, 41. preserve, 42. asteroid

- 43. Later, his claim was found to be \_\_\_\_\_\_ false.
  - adv. completely
- 44. Temperature \_\_\_\_\_\_ are often milder in oceanfront areas.
- *n*. a change, or the process of changing, that frequently happens, especially from one extreme to another; the quality of being unsteady and subject to changes
- 45. The sun will \_\_\_\_\_ the mist.
  - v. to turn a liquid into a gas; to become less intense and disappear gradually
- 46. The building was \_\_\_\_\_\_ in the fire and had to be rebuilt.
- *v.* to ruin or damage severely or completely; to eradicate or eliminate completely
- 47. She received her \_\_\_\_\_ in psychology from the university.
- *n.* a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment
- 48. The corporation \_\_\_\_\_\_ dominated the entire tobacco business.
- *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
- 49. The virus had the potential to \_\_\_\_\_\_ entire populations if left unchecked.
- *v.* to destroy completely; to cause something to cease to exist
- 50. Scientists have predicted that the universe will end in a \_\_\_\_\_\_ where all matter will collapse into an infinitely dense point.
  - *n.* (of black holes) a point or region in space-time where the gravitational field is infinite, and matter and energy are infinitely dense; the state, fact, quality, or condition of being one of a kind

ANSWERS: 43. entirely, 44. fluctuations, 45. evaporate, 46. destroyed, 47. degree, 48. eventually, 49. annihilate, 50. singularity,

- 51. Gamma \_\_\_\_\_ penetrate body tissues and cause cell damage.
- *n.* a narrow line of light, heat, or another form of energy
- 52. In \_\_\_\_\_\_ private corporations provide healthcare services.
- *n*. the act or process of adding something to something else; the process of adding numbers
- 53. The discovery of the \_\_\_\_\_\_ soup was a crucial step in understanding the origins of life on Earth.
  - *adj.* existing from the beginning of time or the start of a particular process; relating to the earliest stage of the universe
- 54. 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
- 55. His \_\_\_\_\_\_ in the other company is responsible for marketing.
- *n*. a person or thing that corresponds to or has the same function as another person or thing
- 56. To advance this discussion, we must \_\_\_\_\_\_ "success" rigorously.
- *v.* to state or explain precisely the nature, scope, or meaning of something
- 57. They hope to \_\_\_\_\_ their business worldwide.
- *v.* to increase or to make something greater in size, number, or importance
- 58. \_\_\_\_\_ 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

ANSWERS: 51. rays, 52. addition, 53. primordial, 54. universe, 55. counterpart, 56. define, 57. expand, 58. Gamma

- 59. In the \_\_\_\_\_\_ system, measurements are made in meters and liters.
- *adj.* using or relating to the meter as a unit of length; a system of related measures that facilitates the quantification of some particular characteristic
- 60. Stock prices \_\_\_\_\_\_ daily based on market demand and supply.
- *v.* to rise and fall irregularly or unexpectedly; to vary or change often and unpredictably
- 61. The \_\_\_\_\_ of the tree had fallen and blocked the road.
- *n.* a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization
- 62. The forest fire continued to \_\_\_\_\_ out of control, threatening nearby homes.
  - v. to burst into flame or light up intensely; to move in a trailblazing manner; to shine brightly or conspicuously
- 63. 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
- 64. 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
- 65. Large earthquakes often generate \_\_\_\_\_\_ tsunamis.
- adj. very frightening or intimidating
- 66. We can calculate the position of the \_\_\_\_\_ statistically.
- *n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance

ANSWERS: 59. metric, 60. fluctuate, 61. branch, 62. blaze, 63. celestial, 64. observe, 65. terrifying, 66. particles

- 67. The sun set over the crest of \_\_\_\_\_ hills.
- *adj.* far away in space, time, or where you are; far apart in relevance, relationship, or kinship
- 68. A rainbow is a natural \_\_\_\_\_.
- *n.* something that exists and can be perceptible, especially one that is not fully understood
- 69. There are five distinct \_\_\_\_\_\_ at five unique wavelengths.
- *n.* the act of production or sending out gas, heat, light, etc.
- 70. The country experienced a \_\_\_\_\_\_ increase in population.
- adj. happening slowly over a long period of time or distance; not steep or abrupt
- 71. He studied \_\_\_\_\_\_ in college and now works as an engineer.
- *n.* the branch of physics that deals with the study of motion, forces, and energy; (mechanic) someone whose occupation is repairing and maintaining automobiles
- 72. The jacket is \_\_\_\_\_\_ to water and will keep you dry in the rain.
- *adj.* unable to be affected by something; not allowing something to pass through, especially fluid; unresponsive or indifferent to criticism or persuasion
- 73. The restaurant is \_\_\_\_\_\_ in the community, having been open for over 50 years.
- *adj.* firmly established and widely recognized; having a long history of success or acceptance in a particular field or industry
- 74. He studied the \_\_\_\_\_ of radiation.
- *n.* the science of matter and energy and their interactions

ANSWERS: 67. distant, 68. phenomenon, 69. emissions, 70. gradual, 71. mechanics, 72. impervious, 73. well-established, 74. physics

- 75. The heavy snow has been \_\_\_\_\_\_ since last morning.
- *adj.* occurring or existing without a pause or interruption
- 76. 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
- 77. The \_\_\_\_\_\_ party strongly disagreed with the government's proposed legislation.
- *n.* the act of disagreeing or resisting; the state of strong disagreement
- The extinction of several subspecies has been linked to climate change and habitat \_\_\_\_\_.
- *n.* the act of causing so much damage to something
- 79. Let's \_\_\_\_\_ the origins of some familiar foreign words.
- *v.* to find or discover someone or something that was lost
- 80. These heavy rains caused \_\_\_\_\_\_ floods on several islands.
- *n.* a sudden intense burst of radiant energy; a momentary brightness
- 81. The curvature of \_\_\_\_\_\_ is affected by the presence of mass and energy.
  - *n.* a four-dimensional continuum consisting of three dimensions of space and one dimension of time, used to describe the physical universe according to Einstein's theory of general relativity
- 82. The \_\_\_\_\_\_ of the earthquake was measured at 7.8 on the Richter scale.
- *n.* the extent, level, importance, or amount of something

ANSWERS: 75. continuous, 76. mass, 77. opposition, 78. destruction, 79. trace, 80. flash, 81. spacetime, 82. magnitude

#### ANSWERS: