# **Englist.me**

## Vocabulary Builder Reference from...

John C. Mather: How the James Webb Space Telescope will unfold the universe | TED Talk https://www.ted.com/talks/john\_c\_mather\_how\_the\_j ames\_webb\_space\_telescope\_will\_unfold\_the\_unive rse



#### All Words

#### **IMPORTANT**

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### **Session 1: Word List**

chromosome	<ul> <li>n. a long and string-like DNA molecule containing the part or all of the genetic material of an organism that controls what an animal or plant is like</li> <li>synonym: DNA</li> </ul>
	(1) a sex <b>chromosome</b> , (2) the end of <b>chromosome</b> Human females normally have two X <b>chromosomes</b> .
amazing	<i>adj.</i> extremely surprising, especially in a way that you like or admire
	synonym: exceptional, extraordinary, wonderful
	(1) <b>amazing</b> advances, (2) the most <b>amazing</b> feeling
	The golfer recorded an <b>amazing</b> distance.
mysterious	<ul> <li><i>adj.</i> difficult to understand, explain, or identify; having an aura of secrecy, intrigue, or puzzlement</li> <li><i>synonym</i>: enigmatic, cryptic, puzzling</li> </ul>
	(1) mysterious object, (2) mysterious stranger
	The <b>mysterious</b> disappearance of the ship remains unsolved.
chemical	<i>adj.</i> relating to or connected with chemistry; <i>synonym</i> : chemic, synthetic

	(1) toxic <b>chemicals</b> , (2) a <b>chemical</b> compound
	The firm has grown into a large <b>chemical</b> manufacturing.
explode	<ul> <li>v. to burst or break open violently and noisily; to cause something to burst or break open</li> <li>synonym: detonate, blast, rupture</li> </ul>
	(1) <b>explode</b> in anger, (2) <b>explode</b> in popularity
	The old building <b>exploded</b> in a fiery inferno.
recycle	<ul> <li>v. to sort and collect things to process them and produce valuable materials that can be used again</li> <li>synonym: reclaim, reuse, reprocess</li> </ul>
	(1) <b>recycle</b> the cardboard boxes, (2) <b>recycle</b> milk packaging into new paper
	We largely <b>recycle</b> the circuit board of cell phones because they contain a lot of valuable metals.
bang	<ul> <li>v. to hit or cause to hit something in a way that makes a loud noise</li> <li>synonym: crash, hit, smash</li> </ul>
	(1) <b>bang</b> his fist on a desk, (2) <b>bang</b> a phone down
	My father tried to <b>bang</b> mathematics into my head since childhood.
cosmic	<i>adj.</i> relating to the universe or cosmos; vast or limitless <i>synonym</i> : astronomical, celestial, outer-space
	(1) second <b>cosmic</b> velocity, (2) <b>cosmic</b> background radiation
	<b>Cosmic</b> rays are high-energy particles that originate from outside the solar system.
microwave	n. a form of electromagnetic radiation with wavelengths ranging from about one millimeter to one meter and frequencies between 300 MHz (0.3 GHz) and 300 GHz; an electric oven that cooks food by exposing it to high-frequency electromagnetic radiation, which causes the food molecules to vibrate and heat up quickly

	synonym: oven, waveguide, radar range
	(1) microwave radiation, (2) microwave popcorn
	I heated my leftover food in the microwave oven, which
	tasted just as good as freshly cooked.
background	<ul> <li>n. the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem</li> <li>synonym: ground, experience, backdrop</li> </ul>
	(1) a <b>background</b> color, (2) a criminal <b>background</b>
	The company's hiring criteria emphasize personality, not a person's <b>background</b> .
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.
wrap	<ul> <li>v. to cover or enclose something entirely with paper, cloth, or other material</li> <li>synonym: surround, cover, bandage</li> </ul>
	(1) wrap a fish in foil, (2) wrap up a meeting
	Wrap the bandage tightly around the injured arm.
oval	adj. having the shape of an egg, rounded at one end and pointed at the other, or having the general outline of an egg
	synonym: elliptical, rounded, circular
	(1) an <b>oval</b> astronomical orbit, (2) an <b>oval-shaped</b> object
	The <b>oval</b> shape of the table made it easier for everyone to see each other.
spot	<i>n.</i> a particular location or place; a small round or roundish area, differing in color or feels from the surface around it

	synonym: dot, mark, place
	(1) beauty <b>spot</b> , (2) a <b>spot</b> on his honor
	This remote <b>spot</b> is rarely visited.
galaxy	<ul> <li><i>n</i>. an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity</li> <li><i>synonym</i>: star cluster, nebula, star system</li> </ul>
	(1) elliptic galaxy, (2) a galaxy of famous actors
	The Milky Way <b>galaxy</b> has numerous water-bearing planets.
planet	<i>n</i> . 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) <b>planet</b> like the Earth, (2) save the <b>planet</b>
	Mercury is the closest <b>planet</b> to the sun.
eventually	<i>adv.</i> 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 <b>eventually</b> dominated the entire tobacco business.
telescope	<i>n.</i> a device like a tube in shape containing lenses used to magnify and observe distant objects
	(1) a binocular <b>telescope</b> , (2) look through a <b>telescope</b>
	This facility has the largest astronomical <b>telescope</b> in the
	country.
diameter	<ul> <li>n. the length of a straight line passing through the center of a circle and connecting two points on the circumference synonym: diam, width</li> </ul>
	(1) diameter of an oval, (2) a particle diameter
	Draw a circle five centimeters in <b>diameter</b> .

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> <li>synonym: watch, monitor, scrutinize</li> </ul>
	(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.
visible	<i>adj.</i> capable of being seen; or open to easy view <i>synonym</i> : clear, observable, seeable
	(1) visible stars, (2) visible by X-ray
	My home is easily <b>visible</b> from the shore.
thrill	<ul> <li>n. a feeling of extreme and sudden excitement and pleasure; to cause someone to feel sudden intense sensation or emotion</li> <li>synonym: exhilaration, delight, rush</li> </ul>
	(1) the <b>thrill</b> of speed, (2) incredible <b>thrill</b>
	Skydiving is an overwhelming thrill for many people.
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 distant memory, (2) distant ancestors
	The sun set over the crest of <b>distant</b> hills.
infrared	<ul> <li>adj. relating to or denoting electromagnetic radiation with a wavelength just longer than that of red light but shorter than that of microwave radiation, used for sensing heat and for remote control</li> <li>synonym: thermal, warm, radiant</li> </ul>
	(1) an <b>infrared</b> lamp, (2) <b>infrared</b> radiation
	The <b>infrared</b> camera revealed a hidden image on the surface.

universe	<ul> <li>everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy</li> </ul>
	synonym: cosmos, macrocosm
	(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.
stretch	<ul> <li>v. to make or be capable of making anything longer or broader without hurting or breaking</li> <li>synonym: lengthen, prolong, extend</li> </ul>
	(1) <b>stretch</b> along the coast, (2) <b>stretch</b> a story
	Some herds have been observed to <b>stretch</b> hundreds of
	kilometers.
expansion	<i>n.</i> the process of becoming larger or more extensive, or the result of this process
	synonym: growth, enlargement, development
	(1) industrial <b>expansion</b> , (2) <b>expansion</b> project
	The company is undergoing an <b>expansion</b> , opening new
	locations in several states.
astronomer	n. a physicist who studies astronomy
	synonym: stargazer, cosmologist, astrophysicist
	(1) amateur <b>astronomer</b> , (2) solar <b>astronomer</b>
	This question has fascinated solar <b>astronomers</b> for decades.
gigantic	adj. extremely large
	synonym: huge, enormous, immense
	(1) gigantic proportions, (2) gigantic monsters
	He was so hungry from the long journey that he had a
	gigantic appetite.
hexagon	<ul> <li>n. a six-sided polygon with six angles and six sides of equal length</li> </ul>
	synonym: hexahedron, six-sided figure, six-gon
	(1) <b>hexagon</b> head bolt, (2) <b>hexagon</b> pattern

	The honeycomb structure of a beehive is made up of <b>hexagons</b> .
layer	<ul> <li>n. a sheet, quantity, or thickness of the material, typically one of several, covering a surface or body; a level or part within a system or set of ideas</li> <li>synonym: stratum, sheet, coating</li> </ul>
	(1) layer cake, (2) layer of paint
	The <b>layer</b> of frost on the ground was so thick it was difficult to walk on.
sunshade	<ul> <li>n. a device or material used to protect someone or something from the sun's rays, particularly a parasol or umbrella; a structure or covering that shades a window or outdoor area</li> <li>synonym: umbrella, awning, parasol</li> </ul>
	(1) sunshade canopy, (2) car sunshade
	The beach umbrella provided a sunshade for us during the
	hot summer day.
rocket	<ul> <li>n. a large tube-shaped object that moves very first by a stream of gases let out behind it, used for space travel or as a weapon</li> <li>synonym: projectile, missile</li> </ul>
	(1) <b>rocket</b> attack against the enemy, (2) <b>rocket</b> fuel
	The <b>rocket</b> launch platform is visible from this hill.
origami	<ul> <li>n. the Japanese art or practice of folding paper into decorative shapes and figures</li> <li>synonym: paper folding, paper art</li> </ul>
	(1) <b>origami</b> paper, (2) <b>origami</b> art
	I love making origami cranes during my free time.
incredible	adj. unbelievable; enormous synonym: unbelievable, fantastical, inconceivable
	(1) incredible amount, (2) at incredible speed
	Her response revealed incredible idiocy.

engineer	<ul> <li>n. a person whose job is designing, building, or maintaining something such as machines, structures, or software</li> <li>synonym: architect, creator, builder</li> </ul>
	(1) a civil <b>engineer</b> , (2) <b>engineer</b> shortage
	The engineer will repair my telephone tomorrow morning.
accomplishment	<ul> <li>n. the successful completion of a task or goal; an ability that has been acquired by training</li> <li>synonym: success, achievement, complete</li> </ul>
	(1) proud of his <b>accomplishments</b> , (2) the <b>accomplishment</b> of a social goal
	Graduating from college was a major <b>accomplishment</b> for her.
conceive	<ul> <li>v. to have or develop an idea, a plan, etc. in mind; to become pregnant</li> <li>synonym: imagine, envision, concoct</li> </ul>
	(1) <b>conceive</b> of an idea, (2) <b>conceive</b> a child
	I can't <b>conceive</b> he'd want to harm us.
launch	<ul> <li>v. to send or propel something into the air or space using a device such as a rocket, missile, or spacecraft; to make something available or on sale for the first time synonym: start, initiate, begin</li> </ul>
	(1) launch a spaceship into orbit, (2) launch a big attack
	The company is set to <b>launch</b> its new product line next month.
straight	<ul> <li>adj. extending or moving in one direction without bending or curving; having no deviations</li> <li>synonym: linear, honest, consecutive</li> </ul>
	(1) a straight line, (2) straight for two months
	He was sick for five <b>straight</b> days.
operational	<ul> <li>adj. relating to a particular process or series of actions for achieving a result</li> <li>synonym: functional, active, working</li> </ul>

	(1) introduce <b>operational</b> software, (2) build <b>operational</b> excellence
	The machine should be <b>operational</b> by Friday afternoon.
observation	<ul> <li>n. the act or activity of carefully examining or monitoring something or someone</li> <li>synonym: watching, notice, reflection</li> </ul>
	(1) class <b>observation</b> day, (2) <b>observation</b> instrument
	In the hospital, she will remain under constant <b>observation</b> .
tropical	<i>adj.</i> originating in, located in, or characteristic of the tropics <i>synonym</i> : equatorial, tropic
	(1) tropical cyclones, (2) tropical islands
	<b>Tropical</b> storm Marco is making his way along the coast of Florida.
vacuum	<ul> <li><i>n</i>. a space empty of matter; a device or tool used for cleaning or removing debris by creating suction</li> <li><i>synonym</i>: 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.
unfold	<ul> <li>v. to open up or spread out something that is folded or rolled up; to reveal or disclose something that was previously hidden or unknown</li> <li>synonym: open, spread out, expose</li> </ul>
	(1) <b>unfold</b> the story, (2) <b>unfold</b> the stroller
	The mystery <b>unfolded</b> as the detectives gathered more clues.
panel	<ul> <li><i>n</i>. a square or rectangular and flat piece of something that forms a distinct section or component of something; a small group of specialists who discuss particular topics or give their advice or opinion about something</li> <li><i>synonym</i>: board, commission, discussion</li> </ul>
	(1) <b>panel</b> discussion, (2) cost of solar <b>panels</b>

A panel of economic advisers from the United States visited the country to help rebuild its economy. *n*. a piece of equipment used for generating and sending electronic signals, especially radio or television signals *synonym*: sender
(1) a transmitter of a family line, (2) radio transmitter
This substance acts as a neural transmitter substance.

*antenna n.* an electrical device that sends or receives radio or television signals; (biology) one of one or more pairs of appendages used for sensing in insects

synonym: feeler, receiver

transmitter

(1) antenna of insect, (2) extend the TV antennaHe had a special antenna for public relations

# compressv.to press or squeeze together to make something take up<br/>less space

synonym: condense, constrict, squeeze

(1) **compress** the chest, (2) **compress** gas

She **compressed** the files into a single ZIP archive to save space on her computer.

*miracle n.* an act or occurrence that is not explicable by natural or scientific laws and is therefore believed to be caused by God

synonym: wonder, marvel, phenomenon

(1) **miracle** person, (2) economic **miracle** 

The doctors said that her recovery was a miracle.

*adj.* of or belonging to the present time or recent times *synonym*: contemporary, stylish, current

> (1) **modern** poetry, (2) pre- **modern** agricultural society Their headquarters are in a **modern** skyscraper.

**complicated** *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze

	<ul> <li>synonym: complex, convoluted, intricate</li> <li>(1) a complicated process, (2) become increasingly</li> <li>complicated</li> <li>He did complicated pen-and-ink drawings in just a few days.</li> </ul>
glow	<ul> <li>v. to give out a steady, strong light</li> <li>synonym: shine, radiate, beam</li> <li>(1) glow a pale orange, (2) glow gold in the light</li> <li>The sun was setting, and the sky glowed with beautiful colors.</li> </ul>
emit	<ul> <li>v. to give off or send out something such as light, heat, sound, gas, etc.</li> <li>synonym: give off, radiate, expel</li> <li>(1) emit a gamma ray, (2) emit air pollution</li> <li>During the unloading, the container box emits a clicking sound.</li> </ul>
unroll	<ul> <li>v. to unwind or unfurl something that has been rolled up, such as a carpet or banner; to reveal or make visible something that was previously concealed or hidden</li> <li><i>synonym</i>: unwind, unfurl, wind off</li> <li>(1) unroll the gift wrap, (2) unroll paper</li> <li>I unroll the mat before starting my yoga practice.</li> </ul>
rehearse	<ul> <li>v. to practice or repeat something, such as a performance, speech, or action, to prepare for an event or to improve one's skills; to go through the motions of a planned activity before executing it</li> <li><i>synonym</i>: practice, recite, drill</li> <li>(1) rehearse an opera, (2) rehearse a speech</li> <li>The actors needed to rehearse their lines before the performance.</li> </ul>
argument	<i>n</i> . a set of statements or reasons used to support or refute a proposition or theory; a verbal or physical fight or dispute

	synonym: debate, discourse, discussion
	(1) a blazing <b>argument</b> , (2) the <b>argument</b> against capital punishment
	The <b>argument</b> between the two sides over the proposed policy was heated.
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.
setup	<ul> <li>n. the arrangement or organization of something, often with a specific purpose or intention; a scheme or plan that is intended to deceive or trick someone</li> <li>synonym: arrangement, installation, organization</li> </ul>
	(1) office setup, (2) network setup
	The setup for the conference was impressive and
	professional.
umbrella	<ul> <li>a device consisting of a circular canopy of cloth on a central pole used as protection against rain or sometimes against the sun</li> </ul>
	synonym: parasol, canopy, sunshade
	(1) umbrella coverage, (2) umbrella ban
	She opened her <b>umbrella</b> to protect herself from the rain.
fuzzy	<i>adj.</i> having a soft and indistinct outline or covered with fine, soft, and hairlike fibers
	synonym: hazy, blurry, indistinct
	(1) <b>fuzzy</b> logic, (2) <b>fuzzy</b> memory
	The picture was <b>fuzzy</b> because it was taken with an old
	camera.

calculate	<ul> <li>v. to judge or find out the amount or number of something by using mathematics</li> </ul>
	synonym: compute, figure, estimate
	(1) calculate the distance, (2) calculate his credit score
	He couldn't <b>calculate</b> the actual value of the artwork.
sensitivity	<ul> <li>n. the ability to perceive or respond to subtle differences or changes; the ability to understand and respond to the needs and feelings of others</li> </ul>
	synonym: alertness, attentiveness, sympathy
	(1) <b>sensitivity</b> analysis, (2) become full of <b>sensitivity</b>
	The instrument has a high <b>sensitivity</b> to temperature changes.
bumblebee	<ul> <li>n. a large, furry bee with black and yellow bands on its body that is known for its loud buzzing sound and its important role in pollinating plants</li> <li>synonym: bee, honeybee, pollinator</li> </ul>
	(1) <b>bumblebee</b> pollination, (2) protecting <b>bumblebees</b>
	The sound of the <b>bumblebee's</b> wings was soothing to listen
	to.
centimeter	n. a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
	(1) centimeter measurement, (2) thirty centimeters tall
	The room was only one <b>centimeter</b> wider than the piano, making it a tight fit.
hover	<ul><li>v. to stay in one place in the air</li><li>synonym: hang, float over, drift</li></ul>
	<ul><li>(1) hover between life and death, (2) hover around the table</li></ul>
	Two birds were <b>hovering</b> overhead.
distance	<i>n.</i> 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
5	ynonym: space, gap, span
(	1) driving distance, (2) social distance
	The marathon runner covered a long <b>distance</b> in a short a mount of time.
	<ul> <li>the light emitted by the sun; the rays of the sun</li> <li>ynonym: daylight, rays, sunshine</li> </ul>
(	1) a glare of <b>sunlight</b> , (2) in direct <b>sunlight</b>
I	Radiation from <b>sunlight</b> has a different wavelength.
0 0	<i>udj.</i> highly enthusiastic; greatly praised
(	1) glowing reviews, (2) glowing cheeks
-	The western sky was <b>glowing</b> pink.
mar 1	<ul> <li>to damage or spoil the appearance or surface of something</li> </ul>
S	ynonym: damage, deface, disfigure
(	1) mar a proper relationship, (2) mar the reputation
-	The scratches on the car <b>marred</b> its otherwise perfect
ć	appearance.
satellite ,	an electronic device that is sent up into space and moves around the Earth or another planet, used for gathering information or communicating by radio, television, etc.
S	ynonym: orbiter, asteroid, moon
(	1) a GPS satellite, (2) a meteorological satellite
l	aunching an artificial satellite contributed to the
t	echnological development of our country.
	<i>udj.</i> relating to Jupiter or its characteristics
(	1) Jovian satellites, (2) Jovian planet
	The <b>Jovian</b> moon Europa is believed to have an ocean

beneath its icy surface.

liquid	<ul> <li><i>n</i>. a substance, such as water or oil that flows freely and is neither a solid nor a gas</li> <li><i>synonym</i>: fluid</li> </ul>
	(1) colorless liquid, (2) hazardous liquid
	The sponge takes up the <b>liquid</b> well.
probe	<ul> <li><i>n</i>. a tool used for testing or examining, especially for medical or scientific purposes, or an exploratory mission to a planet or other celestial body; (verb) to investigate, examine, or search into something</li> <li><i>synonym</i>: investigation, inquiry, examination</li> </ul>
	(1) a lunar <b>probe</b> , (2) <b>probe</b> for inside information
	NASA sent a <b>probe</b> to study the atmosphere of Jupiter.
crack	<ul> <li>v. to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking</li> <li>synonym: snap, burst, break</li> </ul>
	(1) crack an eggshell, (2) a crack in a board
	He that would eat the kernel must <b>crack</b> the nut.
jet	<ul> <li><i>n</i>. a type of aircraft that is powered by one or more jet engines and can fly at high speeds, typically over long distances</li> <li><i>synonym</i>: plane, aircraft, flier</li> </ul>
	(1) private jet, (2) commercial jet
	The jet flew over the ocean at high speed, reaching its
	destination in hours.
organic	<i>adj.</i> of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals <i>synonym</i> : biological
	(1) <b>organic</b> soils, (2) eat <b>organic</b> food
	The kidney is an <b>organic</b> component of the body.

molecule	<ul> <li>a group of two or more atoms held together by attractive forces known as chemical bonds</li> </ul>
	synonym: particle, element, atom
	(1) small molecules, (2) molecule behavior
	The shape of the DNA <b>molecule</b> is a double helix.
titanic	<ul> <li>adj. of or having a great size, power, or influence; of or relating to Titanium (= a light, strong grey, lustrous, corrosion-resistant metallic element)</li> </ul>
	synonym: colossal, massive, immense
	(1) titanic battle, (2) titanic compound
	The <b>titanic</b> ship sank on its maiden voyage.
atmosphere	<ul> <li>n. the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work</li> <li>synonym: air, ambiance, circumstances</li> </ul>
	(1) carbon dioxide in the <b>atmosphere</b> , (2) a convivial <b>atmosphere</b>
	The spaceship began to burn up as it approached the Earth's <b>atmosphere</b> .
hydrocarbon	n. an organic compound consisting entirely of hydrogen and carbon
	(1) <b>hydrocarbon</b> production, (2) <b>hydrocarbon</b> molecules in crude oil
	Burning <b>hydrocarbons</b> releases water vapor and carbon dioxide.
methane	<i>n.</i> a chemical compound with the chemical formula CH4 with no smell or color, often used as a fuel
	(1) atmospheric methane, (2) reduce methane emissions
	The ignition of methane gas in the plant killed five
	employees.
ethane	<ul> <li>n. a colorless, odorless hydrocarbon gas with the molecular formula C2H6 that is a basic component of natural gas and is used as a fuel source and in the</li> </ul>

	production of chemicals
	synonym: natural gas, methane, propane
	(1) <b>ethane</b> production, (2) <b>ethane</b> gas
	<b>Ethane</b> combustion is an important energy source for heating and electricity generation.
fuel	<ul> <li>a substance that is typically burned to generate heat or energy</li> </ul>
	synonym: energy, power, gas
	(1) biomass <b>fuel</b> , (2) smokeless <b>fuel</b>
	The <b>fuel</b> scarcity most severely impacted the manufacturing sector
examine	<ul> <li>v. to study or consider a person or object attentively and thoroughly to learn something about them</li> <li>synonym: study, probe, analyze</li> </ul>
	(1) <b>examine</b> the data studiously, (2) <b>examine</b> the issue
	Initially, we must <b>examine</b> all project-related expenses.
helicopter	<ul> <li>n. a type of aircraft that is capable of hovering in place and moving vertically, as well as flying horizontally; often used for emergency medical services, military operations, and transport in areas with limited access</li> <li>synonym: chopper, copter, whirlybird</li> </ul>
	(1) helicopter ride, (2) police helicopter
	The company's CEO arrived at the meeting via <b>helicopter</b> to avoid traffic congestion
explore	<ul> <li>v. to travel to or penetrate an area or a country to learn about it; to thoroughly examine a subject or a possibility to learn more about it</li> <li>synonym: analyze, delve into, examine</li> </ul>
	(1) <b>explore</b> the world, (2) <b>explore</b> our options
	The management must <b>explore</b> strategies to increase office security.

solid	<i>adj.</i> hard or firm; characterized by good substantial quality <i>synonym</i> : stable, reliable, hard		
	(1) <b>solid</b> ally, (2) <b>solid</b> employment measures		
	The <b>solid-state</b> of water is called ice.		
solvent	<ul> <li>adj. capable of dissolving other substances; having sufficient money to pay all outstanding debts; (noun) a liquid substance capable of dissolving other substances</li> <li>synonym: (noun) solution, (noun) dissolver</li> </ul>		
	(1) a <b>solvent</b> liquid, (2) chemical <b>solvents</b>		
	The company was able to remain solvent throughout the		
	economic downturn.		
starlight	<ul> <li>n. the light emitted or reflected by stars, often observed in the night sky; the radiant energy emitted by stars</li> <li>synonym: twinkle, starshine, stardust</li> </ul>		
	(1) starlight sky, (2) romantic starlight		
	The romantic couple had a picnic under the starlight.		
analyze	<ul> <li>v. to think about in-depth and evaluate to discover essential features or meaning</li> <li>synonym: explore, examine, investigate</li> </ul>		
	(1) <b>analyze</b> a chemical compound, (2) <b>analyze</b> your real motives		
	The teacher attempted to <b>analyze</b> the root cause of our mistake.		
chemistry	<i>n.</i> the branch of the natural sciences dealing with the composition of substances and their properties and reactions		
	(1) professor of <b>chemistry</b> , (2) the <b>chemistry</b> of soil		
	He is familiar with <b>chemistry</b> and biology.		
tune	<ul> <li>n. a musical composition or set of musical notes that are played or sung; (verb) to adjust or set something to a specific condition or standard</li> <li>synonym: melody, harmony, (verb) adjust</li> </ul>		
tune	played or sung; (verb) to adjust or set something to		

(1) the tune of a song, (2) tune a pianoThe band played a beautiful tune on their instruments.

#### imaginary

*adj.* existing only in someone's mind *synonym*: fictional, ideal, fantastical
(1) **imaginary** number, (2) **imaginary** pregnancy
Little children tend to have **imaginary** friends.

# **Session 2: Spelling**

1.	ete gas	n.	a colorless, odorless hydrocarbon gas with the molecular formula C2H6 that is a basic component of natural gas and is used as a fuel source and in the production of chemicals
2.	exposure to 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
3.	introduce opeal software	adj.	relating to a particular process or series of actions for achieving a result
4.	solar aster	n.	a physicist who studies astronomy
5.	imry pregnancy	adj.	existing only in someone's mind
6.	rese an opera	v.	to practice or repeat something, such as a performance, speech, or action, to prepare for an event or to improve one's skills; to go through the motions of a planned activity before executing it
7.	und the stroller	v.	to open up or spread out something that is folded or rolled up; to reveal or disclose something that was previously hidden or unknown
8.	cost of solar pals	n.	a square or rectangular and flat piece of something that forms a distinct section or component of something; a small group of specialists who discuss particular topics or give their advice or opinion about something

ANSWERS: 1. ethane, 2. radiation, 3. operational, 4. astronomer, 5. imaginary, 6. rehearse, 7. unfold, 8. panel

9. giic proportions	adj.	extremely large
10. ane a chemical compound	v.	to think about in-depth and evaluate to discover essential features or meaning
11. extreme temres	n.	the degree of hotness or coldness of a thing or place
12. crk an eggshell	v.	to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking
13. exe our options	v.	to travel to or penetrate an area or a country to learn about it; to thoroughly examine a subject or a possibility to learn more about it
14. fuy memory	adj.	having a soft and indistinct outline or covered with fine, soft, and hairlike fibers
15. exe the data studiously	v.	to study or consider a person or object attentively and thoroughly to learn something about them
16. coc background radiation	adj.	relating to the universe or cosmos; vast or limitless
17. Jon satellites	adj.	relating to Jupiter or its characteristics
18. smokeless fl	n.	a substance that is typically burned to generate heat or energy
19. exe the issue	v.	to study or consider a person or object attentively and thoroughly to learn something about them
20. bg a phone down	<i>v</i> .	to hit or cause to hit something in a way that makes a loud noise

ANSWERS: 9. gigantic, 10. analyze, 11. temperature, 12. crack, 13. explore, 14. fuzzy, 15. examine, 16. cosmic, 17. Jovian, 18. fuel, 19. examine, 20. bang

21. tral cyclones	adj.	originating in, located in, or characteristic of the tropics
22. ete production	n.	a colorless, odorless hydrocarbon gas with the molecular formula C2H6 that is a basic component of natural gas and is used as a fuel source and in the production of chemicals
23. fuy logic	adj.	having a soft and indistinct outline or covered with fine, soft, and hairlike fibers
24. senty analysis	n.	the ability to perceive or respond to subtle differences or changes; the ability to understand and respond to the needs and feelings of others
25. ined radiation	adj.	relating to or denoting electromagnetic radiation with a wavelength just longer than that of red light but shorter than that of microwave radiation, used for sensing heat and for remote control
26. second coc velocity	adj.	relating to the universe or cosmos; vast or limitless
27. become full of senty	n.	the ability to perceive or respond to subtle differences or changes; the ability to understand and respond to the needs and feelings of others
28. tic battle	adj.	of or having a great size, power, or influence; of or relating to Titanium (= a light, strong grey, lustrous, corrosion-resistant metallic element)
29. biomass fl	n.	a substance that is typically burned to generate heat or energy

ANSWERS: 21. tropical, 22. ethane, 23. fuzzy, 24. sensitivity, 25. infrared, 26. cosmic, 27. sensitivity, 28. titanic, 29. fuel

30. industrial exon	n.	the process of becoming larger or more extensive, or the result of this process
31. carbon dioxide in the atmre	n.	the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work
32. umla ban	n.	a device consisting of a circular canopy of cloth on a central pole used as protection against rain or sometimes against the sun
33. ana of insect	n.	an electrical device that sends or receives radio or television signals; (biology) one of one or more pairs of appendages used for sensing in insects
34. ener shortage	n.	a person whose job is designing, building, or maintaining something such as machines, structures, or software
35. gw gold in the light	ν.	to give out a steady, strong light
36. exe the world	v.	to travel to or penetrate an area or a country to learn about it; to thoroughly examine a subject or a possibility to learn more about it
37. hen pattern	n.	a six-sided polygon with six angles and six sides of equal length
38. cate his credit score	v.	to judge or find out the amount or number of something by using mathematics
39. sth a story	v.	to make or be capable of making anything longer or broader without hurting or breaking

ANSWERS: 30. expansion, 31. atmosphere, 32. umbrella, 33. antenna, 34. engineer, 35. glow, 36. explore, 37. hexagon, 38. calculate, 39. stretch

40. a dit memory	adj.	far away in space, time, or where you are; far apart in relevance, relationship, or kinship
41. rot fuel	n.	a large tube-shaped object that moves very first by a stream of gases let out behind it, used for space travel or as a weapon
42. tral islands	adj.	originating in, located in, or characteristic of the tropics
43. stht for two months	adj.	extending or moving in one direction without bending or curving; having no deviations
44. small moles	n.	a group of two or more atoms held together by attractive forces known as chemical bonds
45. a lunar pre	n.	a tool used for testing or examining, especially for medical or scientific purposes, or an exploratory mission to a planet or other celestial body; (verb) to investigate, examine, or search into something
46. vie by X-ray	adj.	capable of being seen; or open to easy view
47. lar cake	n.	a sheet, quantity, or thickness of the material, typically one of several, covering a surface or body; a level or part within a system or set of ideas
48. mysus object	adj.	difficult to understand, explain, or identify; having an aura of secrecy, intrigue, or puzzlement

ANSWERS: 40. distant, 41. rocket, 42. tropical, 43. straight, 44. molecule, 45. probe, 46. visible, 47. layer, 48. mysterious

49.	lar of paint	n.	a sheet, quantity, or thickness of the material, typically one of several, covering a surface or body; a level or part within a system or set of ideas
50.	driving dice	n.	the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance
51.	lah a big attack	v.	to send or propel something into the air or space using a device such as a rocket, missile, or spacecraft; to make something available or on sale for the first time
52.	a meteorological sate	n.	an electronic device that is sent up into space and moves around the Earth or another planet, used for gathering information or communicating by radio, television, etc.
53.	car sude	n.	a device or material used to protect someone or something from the sun's rays, particularly a parasol or umbrella; a structure or covering that shades a window or outdoor area
54.	become increasingly comed	adj.	involving a lot of different things or parts in a way that is difficult to understand or analyze
55.	a chal compound	adj.	relating to or connected with chemistry;
56.	a sot liquid	adj.	capable of dissolving other substances; having sufficient money to pay all outstanding debts; (noun) a liquid substance capable of dissolving other substances

ANSWERS: 49. layer, 50. distance, 51. launch, 52. satellite, 53. sunshade, 54. complicated, 55. chemical, 56. solvent

57. a sex chrme	n.	a long and string-like DNA molecule containing the part or all of the genetic material of an organism that controls what an animal or plant is like
58. at incle speed	adj.	unbelievable; enormous
59. imry number	adj.	existing only in someone's mind
60. rese a speech	v.	to practice or repeat something, such as a performance, speech, or action, to prepare for an event or to improve one's skills; to go through the motions of a planned activity before executing it
61. heler ride	n.	a type of aircraft that is capable of hovering in place and moving vertically, as well as flying horizontally; often used for emergency medical services, military operations, and transport in areas with limited access
62. extend the TV ana	n.	an electrical device that sends or receives radio or television signals; (biology) one of one or more pairs of appendages used for sensing in insects
63. glg reviews	adj.	highly enthusiastic; greatly praised
64. pre-mon agricultural society	adj.	of or belonging to the present time or recent times
65. cove a child	v.	to have or develop an idea, a plan, etc. in mind; to become pregnant
66. a glare of suht	n.	the light emitted by the sun; the rays of the sun

ANSWERS: 57. chromosome, 58. incredible, 59. imaginary, 60. rehearse, 61. helicopter, 62. antenna, 63. glowing, 64. modern, 65. conceive, 66. sunlight

67. coss gas	v.	to press or squeeze together to make something take up less space
68. rot attack against the enemy	n.	a large tube-shaped object that moves very first by a stream of gases let out behind it, used for space travel or as a weapon
69. 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
70. a particle dier	n.	the length of a straight line passing through the center of a circle and connecting two points on the circumference
71. chemical sots	adj.	capable of dissolving other substances; having sufficient money to pay all outstanding debts; (noun) a liquid substance capable of dissolving other substances
72. the arnt against capital punishment	n.	a set of statements or reasons used to support or refute a proposition or theory; a verbal or physical fight or dispute
73. social dice	n.	the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance
74. in direct suht	n.	the light emitted by the sun; the rays of the sun

ANSWERS: 67. compress, 68. rocket, 69. observe, 70. diameter, 71. solvent, 72. argument, 73. distance, 74. sunlight

75. toxic chals	adj.	relating to or connected with chemistry;
76. sod ally	adj.	hard or firm; characterized by good substantial quality
77. m_r the reputation	<i>v</i> .	to damage or spoil the appearance or surface of something
78. romantic stht	n.	the light emitted or reflected by stars, often observed in the night sky; the radiant energy emitted by stars
79. sude canopy	n.	a device or material used to protect someone or something from the sun's rays, particularly a parasol or umbrella; a structure or covering that shades a window or outdoor area
80. ane your real motives	ν.	to think about in-depth and evaluate to discover essential features or meaning
81. unl paper	v.	to unwind or unfurl something that has been rolled up, such as a carpet or banner; to reveal or make visible something that was previously concealed or hidden
82. glg cheeks	adj.	highly enthusiastic; greatly praised
83. et air pollution	ν.	to give off or send out something such as light, heat, sound, gas, etc.
84. mive radiation	n.	a form of electromagnetic radiation with wavelengths ranging from about one millimeter to one meter and frequencies between 300 MHz (0.3 GHz) and 300 GHz; an electric oven that cooks food by exposing it to high-frequency electromagnetic radiation, which causes the food molecules to vibrate and heat up quickly

ANSWERS: 75. chemical, 76. solid, 77. mar, 78. starlight, 79. sunshade, 80. analyze, 81. unroll, 82. glowing, 83. emit, 84. microwave

85. cate the distance	v.	to judge or find out the amount or number of something by using mathematics
86. giic monsters	adj.	extremely large
87. vam cleaner	n.	a space empty of matter; a device or tool used for cleaning or removing debris by creating suction
88. a criminal bacnd	n.	the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem
89. expansion of the unse	n.	everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
90. the te of a song	n.	a musical composition or set of musical notes that are played or sung; (verb) to adjust or set something to a specific condition or standard
91. incle amount	adj.	unbelievable; enormous
92. office sep	n.	the arrangement or organization of something, often with a specific purpose or intention; a scheme or plan that is intended to deceive or trick someone
93. buee pollination	n.	a large, furry bee with black and yellow bands on its body that is known for its loud buzzing sound and its important role in pollinating plants

ANSWERS: 85. calculate, 86. gigantic, 87. vacuum, 88. background, 89. universe, 90. tune, 91. incredible, 92. setup, 93. bumblebee

94. an ol astronomical orbit	C	having the shape of an egg, rounded at one end and pointed at the other, or having the general outline of an egg
95. evely become obsolete		finally, particularly after a long time or a lot of struggle, complications, and so on
96. reduce mee emissions	f	a chemical compound with the chemical formula CH4 with no smell or color, often used as a fuel
97. ree milk packaging into new paper	t	to sort and collect things to process them and produce valuable materials that can be used again
98. the most amg feeling		extremely surprising, especially in a way that you like or admire
99. exon project		the process of becoming larger or more extensive, or the result of this process
100. ori art	F	the Japanese art or practice of folding paper into decorative shapes and figures
101. a crk in a board	c I	to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking
102. plt like the Earth	t c	any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
103. cener measurement	r	a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter

ANSWERS: 94. oval, 95. eventually, 96. methane, 97. recycle, 98. amazing, 99. expansion, 100. origami, 101. crack, 102. planet, 103. centimeter

o opu	
n.	a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
adj.	of or having a great size, power, or influence; of or relating to Titanium (= a light, strong grey, lustrous, corrosion-resistant metallic element)
n.	a person whose job is designing, building, or maintaining something such as machines, structures, or software
n.	a device like a tube in shape containing lenses used to magnify and observe distant objects
n.	the successful completion of a task or goal; an ability that has been acquired by training
n.	an act or occurrence that is not explicable by natural or scientific laws and is therefore believed to be caused by God
n.	a particular location or place; a small round or roundish area, differing in color or feels from the surface around it
n.	a long and string-like DNA molecule containing the part or all of the genetic material of an organism that controls what an animal or plant is like
v.	to stay in one place in the air
n.	a device consisting of a circular canopy of cloth on a central pole used as protection against rain or sometimes against the sun
	n. adj. n. n. n. n. n. v.

ANSWERS: 104. centimeter, 105. titanic, 106. engineer, 107. telescope, 108. accomplishment, 109. miracle, 110. spot, 111. chromosome, 112. hover, 113. umbrella

114. gw a pale orange	v.	to give out a steady, strong light
115. a traer of a family line	n.	a piece of equipment used for generating and sending electronic signals, especially radio or television signals
116. incredible thI	n.	a feeling of extreme and sudden excitement and pleasure; to cause someone to feel sudden intense sensation or emotion
117. police heler	n.	a type of aircraft that is capable of hovering in place and moving vertically, as well as flying horizontally; often used for emergency medical services, military operations, and transport in areas with limited access
118. a stht line	adj.	extending or moving in one direction without bending or curving; having no deviations
119. protecting buees	n.	a large, furry bee with black and yellow bands on its body that is known for its loud buzzing sound and its important role in pollinating plants
120. elliptic gay	n.	an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity
121. amg advances	adj.	extremely surprising, especially in a way that you like or admire
122. a GPS sate	n.	an electronic device that is sent up into space and moves around the Earth or another planet, used for gathering information or communicating by radio, television, etc.

ANSWERS: 114. glow, 115. transmitter, 116. thrill, 117. helicopter, 118. straight, 119. bumblebee, 120. galaxy, 121. amazing, 122. satellite

123. class obson day	n.	the act or activity of carefully examining or monitoring something or someone
124. mie person	n.	an act or occurrence that is not explicable by natural or scientific laws and is therefore believed to be caused by God
125. an ined lamp	adj.	relating to or denoting electromagnetic radiation with a wavelength just longer than that of red light but shorter than that of microwave radiation, used for sensing heat and for remote control
126. wp a fish in foil	v.	to cover or enclose something entirely with paper, cloth, or other material
127. commercial j_t	n.	a type of aircraft that is powered by one or more jet engines and can fly at high speeds, typically over long distances
128. a blazing arnt	n.	a set of statements or reasons used to support or refute a proposition or theory; a verbal or physical fight or dispute
129. professor of chry	n.	the branch of the natural sciences dealing with the composition of substances and their properties and reactions
130. mon poetry	adj.	of or belonging to the present time or recent times
131. an ol-shaped object	adj.	having the shape of an egg, rounded at one end and pointed at the other, or having the general outline of an egg

ANSWERS: 123. observation, 124. miracle, 125. infrared, 126. wrap, 127. jet, 128. argument, 129. chemistry, 130. modern, 131. oval

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132. vam packing	n.	a space empty of matter; a device or tool used for cleaning or removing debris by creating suction
133. stht sky	n.	the light emitted or reflected by stars, often observed in the night sky; the radiant energy emitted by stars
134. a gay of famous actors	n.	an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity
135. pre for inside information	n.	a tool used for testing or examining, especially for medical or scientific purposes, or an exploratory mission to a planet or other celestial body; (verb) to investigate, examine, or search into something
136. hydon molecules in crude oil	n.	an organic compound consisting entirely of hydrogen and carbon
137. mysus stranger	adj.	difficult to understand, explain, or identify; having an aura of secrecy, intrigue, or puzzlement
138. hen head bolt	n.	a six-sided polygon with six angles and six sides of equal length
139. pal discussion	n.	a square or rectangular and flat piece of something that forms a distinct section or component of something; a small group of specialists who discuss particular topics or give their advice or opinion about something
140. lah a spaceship into orbit	V.	to send or propel something into the air or space using a device such as a rocket, missile, or spacecraft; to make something available or on sale for the first time

ANSWERS: 132. vacuum, 133. starlight, 134. galaxy, 135. probe, 136. hydrocarbon, 137. mysterious, 138. hexagon, 139. panel, 140. launch

141. te a piano	n.	a musical composition or set of musical notes that are played or sung; (verb) to adjust or set something to a specific condition or standard
142. colorless lid	n.	a substance, such as water or oil that flows freely and is neither a solid nor a gas
143. 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
144. hydon production	n.	an organic compound consisting entirely of hydrogen and carbon
145. the chry of soil	n.	the branch of the natural sciences dealing with the composition of substances and their properties and reactions
146. the thI of speed	n.	a feeling of extreme and sudden excitement and pleasure; to cause someone to feel sudden intense sensation or emotion
147. private j_t	n.	a type of aircraft that is powered by one or more jet engines and can fly at high speeds, typically over long distances
148. dit ancestors	adj.	far away in space, time, or where you are; far apart in relevance, relationship, or kinship
149. amateur aster	n.	a physicist who studies astronomy

ANSWERS: 141. tune, 142. liquid, 143. observe, 144. hydrocarbon, 145. chemistry, 146. thrill, 147. jet, 148. distant, 149. astronomer

150. ori paper	n.	the Japanese art or practice of folding paper into decorative shapes and figures
151. sth along the coast	v.	to make or be capable of making anything longer or broader without hurting or breaking
152. mole behavior	n.	a group of two or more atoms held together by attractive forces known as chemical bonds
153. network sep	n.	the arrangement or organization of something, often with a specific purpose or intention; a scheme or plan that is intended to deceive or trick someone
154. a binocular tepe	n.	a device like a tube in shape containing lenses used to magnify and observe distant objects
155. sod employment measures	adj.	hard or firm; characterized by good substantial quality
156. eat orc food	adj.	of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals
157. coss the chest	v.	to press or squeeze together to make something take up less space
158. orc soils	adj.	of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals
159. 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

ANSWERS: 150. origami, 151. stretch, 152. molecule, 153. setup, 154. telescope, 155. solid, 156. organic, 157. compress, 158. organic, 159. planet

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160. ree the cardboard boxes	v.	to sort and collect things to process them and produce valuable materials that can be used again
161. atmospheric mee	n.	a chemical compound with the chemical formula CH4 with no smell or color, often used as a fuel
162. unl the gift wrap	v.	to unwind or unfurl something that has been rolled up, such as a carpet or banner; to reveal or make visible something that was previously concealed or hidden
163. exe in popularity	v.	to burst or break open violently and noisily; to cause something to burst or break open
164. wp up a meeting	v.	to cover or enclose something entirely with paper, cloth, or other material
165. mive popcorn	n.	a form of electromagnetic radiation with wavelengths ranging from about one millimeter to one meter and frequencies between 300 MHz (0.3 GHz) and 300 GHz; an electric oven that cooks food by exposing it to high-frequency electromagnetic radiation, which causes the food molecules to vibrate and heat up quickly
166. hor between life and death	<i>v</i> .	to stay in one place in the air
167. obson instrument	n.	the act or activity of carefully examining or monitoring something or someone
168. theory of the unse	n.	everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy

ANSWERS: 160. recycle, 161. methane, 162. unroll, 163. explode, 164. wrap, 165. microwave, 166. hover, 167. observation, 168. universe

169. the atmospheric temre	<i>n.</i> the degree of hotness or coldness of a thing or place
170. build opeal excellence	<i>adj.</i> relating to a particular process or series of actions for achieving a result
171. bg his fist on a desk	<ul> <li>v. to hit or cause to hit something in a way that makes a loud noise</li> </ul>
172. hazardous lid	<ul> <li>n. a substance, such as water or oil that flows freely and is neither a solid nor a gas</li> </ul>
173. dier of an oval	<ul> <li>n. the length of a straight line passing through the center of a circle and connecting two points on the circumference</li> </ul>
174. und the story	<ul> <li>v. to open up or spread out something that is folded or rolled up; to reveal or disclose something that was previously hidden or unknown</li> </ul>
175. proud of his accents	<ul> <li>n. the successful completion of a task or goal; an ability that has been acquired by training</li> </ul>
176. et a gamma ray	<ul> <li>v. to give off or send out something such as light, heat, sound, gas, etc.</li> </ul>
177. electromagnetic 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>
178. vie stars	<i>adj.</i> capable of being seen; or open to easy view
179. exe in anger	<ul> <li>v. to burst or break open violently and noisily; to cause something to burst or break open</li> </ul>

ANSWERS: 169. temperature, 170. operational, 171. bang, 172. liquid, 173. diameter, 174. unfold, 175. accomplishment, 176. emit, 177. radiation, 178. visible, 179. explode

180. a convivial atmre	n.	the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work
181. a comed process	adj.	involving a lot of different things or parts in a way that is difficult to understand or analyze
182. m_r a proper relationship	ν.	to damage or spoil the appearance or surface of something
183. Jon planet	adj.	relating to Jupiter or its characteristics
184. cove of an idea	ν.	to have or develop an idea, a plan, etc. in mind; to become pregnant
185. radio traer	n.	a piece of equipment used for generating and sending electronic signals, especially radio or television signals
186. evely succeed	adv.	finally, particularly after a long time or a lot of struggle, complications, and so on
187. a st on his honor	n.	a particular location or place; a small round or roundish area, differing in color or feels from the surface around it
188. a bacnd color	n.	the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem

ANSWERS: 180. atmosphere, 181. complicated, 182. mar, 183. Jovian, 184. conceive, 185. transmitter, 186. eventually, 187. spot, 188. background

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

- 1. I can't \_\_\_\_\_ he'd want to harm us.
- v. to have or develop an idea, a plan, etc. in mind; to become pregnant
- 2. She \_\_\_\_\_\_ the files into a single ZIP archive to save space on her computer.
- *v.* to press or squeeze together to make something take up less space
- 3. This substance acts as a neural \_\_\_\_\_\_ substance.
- *n*. a piece of equipment used for generating and sending electronic signals, especially radio or television signals
- 4. The ignition of \_\_\_\_\_ gas in the plant killed five employees.
- *n.* a chemical compound with the chemical formula CH4 with no smell or color, often used as a fuel
- 5. I love making \_\_\_\_\_ cranes during my free time.
- *n.* the Japanese art or practice of folding paper into decorative shapes and figures
- 6. The sound of the \_\_\_\_\_ wings was soothing to listen to.
- *n.* a large, furry bee with black and yellow bands on its body that is known for its loud buzzing sound and its important role in pollinating plants
- 7. The romantic couple had a picnic under the \_\_\_\_\_.
- *n.* the light emitted or reflected by stars, often observed in the night sky; the radiant energy emitted by stars
- 8. He did \_\_\_\_\_\_ pen-and-ink drawings in just a few days.
- *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze

ANSWERS: 1. conceive, 2. compressed, 3. transmitter, 4. methane, 5. origami, 6. bumblebee's, 7. starlight, 8. complicated

- 9. The \_\_\_\_\_\_ between the two sides over the proposed policy was heated.
- *n.* a set of statements or reasons used to support or refute a proposition or theory; a verbal or physical fight or dispute
- 10. \_\_\_\_\_ combustion is an important energy source for heating and electricity generation.
- *n.* a colorless, odorless hydrocarbon gas with the molecular formula C2H6 that is a basic component of natural gas and is used as a fuel source and in the production of chemicals
- 11. The company is set to \_\_\_\_\_ its new product line next month.
- v. to send or propel something into the air or space using a device such as a rocket, missile, or spacecraft; to make something available or on sale for the first time
- 12. Burning \_\_\_\_\_\_ releases water vapor and carbon dioxide.
- *n.* an organic compound consisting entirely of hydrogen and carbon
- 13. I \_\_\_\_\_\_ the mat before starting my yoga practice.
- v. to unwind or unfurl something that has been rolled up, such as a carpet or banner; to reveal or make visible something that was previously concealed or hidden
- 14. During the unloading, the container box \_\_\_\_\_ a clicking sound.
- *v.* to give off or send out something such as light, heat, sound, gas, etc.
- 15. Cities around the world set records for highest \_\_\_\_\_\_ this summer.
- *n.* the degree of hotness or coldness of a thing or place
- 16. The \_\_\_\_\_ of frost on the ground was so thick it was difficult to walk on.
- *n.* a sheet, quantity, or thickness of the material, typically one of several, covering a surface or body; a level or part within a system or set of ideas

ANSWERS: 9. argument, 10. Ethane, 11. launch, 12. hydrocarbons, 13. unroll, 14. emits, 15. temperatures, 16. layer

- 17. He was so hungry from the long journey that he had a \_\_\_\_\_\_ appetite.
  - adj. extremely large
- 18. The room was only one \_\_\_\_\_\_ wider than the piano, making it a tight fit.
- *n.* a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
- 19. The picture was \_\_\_\_\_ because it was taken with an old camera.
  - *adj.* having a soft and indistinct outline or covered with fine, soft, and hairlike fibers
- 20. Human females normally have two X \_\_\_\_\_.
- *n.* a long and string-like DNA molecule containing the part or all of the genetic material of an organism that controls what an animal or plant is like
- 21. Skydiving is an overwhelming \_\_\_\_\_ for many people.
- *n.* a feeling of extreme and sudden excitement and pleasure; to cause someone to feel sudden intense sensation or emotion
- 22. We largely \_\_\_\_\_\_ the circuit board of cell phones because they contain a lot of valuable metals.
  - *v.* to sort and collect things to process them and produce valuable materials that can be used again
- 23. I heated my leftover food in the \_\_\_\_\_ oven, which tasted just as good as freshly cooked.
- *n*. a form of electromagnetic radiation with wavelengths ranging from about one millimeter to one meter and frequencies between 300 MHz (0.3 GHz) and 300 GHz; an electric oven that cooks food by exposing it to high-frequency electromagnetic radiation, which causes the food molecules to vibrate and heat up quickly

ANSWERS: 17. gigantic, 18. centimeter, 19. fuzzy, 20. chromosomes, 21. thrill, 22. recycle, 23. microwave

- 24. The shape of the DNA \_\_\_\_\_ is a double helix.
  - *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
- 25. The kidney is an \_\_\_\_\_ component of the body.
- *adj.* of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals
- 26. The sponge takes up the \_\_\_\_\_ well.
- *n.* a substance, such as water or oil that flows freely and is neither a solid nor a gas
- 27. He had a special \_\_\_\_\_ for public relations
  - *n.* an electrical device that sends or receives radio or television signals; (biology) one of one or more pairs of appendages used for sensing in insects
- 28. 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
- 29. The sun was setting, and the sky \_\_\_\_\_ with beautiful colors.
  - v. to give out a steady, strong light
- 30. My father tried to \_\_\_\_\_ mathematics into my head since childhood.
- *v*. to hit or cause to hit something in a way that makes a loud noise
- 31. 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

ANSWERS: 24. molecule, 25. organic, 26. liquid, 27. antenna, 28. distant, 29. glowed, 30. bang, 31. planet

- 32. The management must \_\_\_\_\_\_ strategies to increase office security.
  - v. to travel to or penetrate an area or a country to learn about it; to thoroughly examine a subject or a possibility to learn more about it
- 33. Graduating from college was a major \_\_\_\_\_\_ for her.
- *n.* the successful completion of a task or goal; an ability that has been acquired by training
- 34. The \_\_\_\_\_ shape of the table made it easier for everyone to see each other.
- *adj.* having the shape of an egg, rounded at one end and pointed at the other, or having the general outline of an egg
- 35. 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
- 36. The mystery \_\_\_\_\_\_ as the detectives gathered more clues.
- *v.* to open up or spread out something that is folded or rolled up; to reveal or disclose something that was previously hidden or unknown
- 37. The \_\_\_\_\_\_ camera revealed a hidden image on the surface.
- *adj.* relating to or denoting electromagnetic radiation with a wavelength just longer than that of red light but shorter than that of microwave radiation, used for sensing heat and for remote control
- 38. The corporation \_\_\_\_\_\_ dominated the entire tobacco business.
- *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
- 39. Draw a circle five centimeters in \_\_\_\_\_.
- *n.* the length of a straight line passing through the center of a circle and connecting two points on the circumference

ANSWERS: 32. explore, 33. accomplishment, 34. oval, 35. universe, 36. unfolded, 37. infrared, 38. eventually, 39. diameter

- 40. Some herds have been observed to \_\_\_\_\_ hundreds of kilometers.
  - v. to make or be capable of making anything longer or broader without hurting or breaking
- 41. Little children tend to have \_\_\_\_\_\_ friends.
- *adj.* existing only in someone's mind
- 42. A \_\_\_\_\_ of economic advisers from the United States visited the country to help rebuild its economy.
- *n.* a square or rectangular and flat piece of something that forms a distinct section or component of something; a small group of specialists who discuss particular topics or give their advice or opinion about something
- 43. The company was able to remain \_\_\_\_\_\_ throughout the economic downturn.
- *adj.* capable of dissolving other substances; having sufficient money to pay all outstanding debts; (noun) a liquid substance capable of dissolving other substances
- 44. The \_\_\_\_\_\_ disappearance of the ship remains unsolved.
- *adj.* difficult to understand, explain, or identify; having an aura of secrecy, intrigue, or puzzlement
- 45. The firm has grown into a large \_\_\_\_\_ manufacturing.
  - adj. relating to or connected with chemistry;
- 46. My home is easily \_\_\_\_\_ from the shore.
  - *adj.* capable of being seen; or open to easy view
- 47. The \_\_\_\_\_ for the conference was impressive and professional.
- *n.* the arrangement or organization of something, often with a specific purpose or intention; a scheme or plan that is intended to deceive or trick someone

ANSWERS: 40. stretch, 41. imaginary, 42. panel, 43. solvent, 44. mysterious, 45. chemical, 46. visible, 47. setup

- 48. The honeycomb structure of a beehive is made up of \_\_\_\_\_.
- *n.* a six-sided polygon with six angles and six sides of equal length
- 49. The western sky was \_\_\_\_\_ pink.
- adj. highly enthusiastic; greatly praised
- 50. Initially, we must \_\_\_\_\_ all project-related expenses.
- *v.* to study or consider a person or object attentively and thoroughly to learn something about them
- 51. The company is undergoing an \_\_\_\_\_\_ opening new locations in several states.
- *n.* the process of becoming larger or more extensive, or the result of this process
- 52. Their headquarters are in a \_\_\_\_\_\_ skyscraper.
- *adj.* of or belonging to the present time or recent times
- 53. Her response revealed \_\_\_\_\_\_ idiocy.
- adj. unbelievable; enormous
- 54. The company's CEO arrived at the meeting via \_\_\_\_\_\_ to avoid traffic congestion
  - *n.* a type of aircraft that is capable of hovering in place and moving vertically, as well as flying horizontally; often used for emergency medical services, military operations, and transport in areas with limited access
- 55. He was sick for five \_\_\_\_\_ days.
- *adj.* extending or moving in one direction without bending or curving; having no deviations

ANSWERS: 48. hexagons, 49. glowing, 50. examine, 51. expansion, 52. modern, 53. incredible, 54. helicopter, 55. straight

- 56. The machine should be \_\_\_\_\_ by Friday afternoon.
- *adj.* relating to a particular process or series of actions for achieving a result
- 57. The golfer recorded an \_\_\_\_\_ distance.
- adj. extremely surprising, especially in a way that you like or admire
- 58. The teacher attempted to \_\_\_\_\_\_ the root cause of our mistake.
- *v.* to think about in-depth and evaluate to discover essential features or meaning
- 59. 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
- 60. The company's hiring criteria emphasize personality, not a person's
  - *n.* the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem
- 61. The \_\_\_\_\_\_ will repair my telephone tomorrow morning.
- *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
- 62. The instrument has a high \_\_\_\_\_\_ to temperature changes.
- *n.* the ability to perceive or respond to subtle differences or changes; the ability to understand and respond to the needs and feelings of others
- 63. The spaceship began to burn up as it approached the Earth's \_\_\_\_\_.
- *n.* the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work

ANSWERS: 56. operational, 57. amazing, 58. analyze, 59. vacuum, 60. background, 61. engineer, 62. sensitivity, 63. atmosphere

- 64. The \_\_\_\_\_ moon Europa is believed to have an ocean beneath its icy surface.
- adj. relating to Jupiter or its characteristics
- 65. He is familiar with \_\_\_\_\_ and biology.
- *n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions
- 66. 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
- 67. \_\_\_\_\_\_ storm Marco is making his way along the coast of Florida.
- adj. originating in, located in, or characteristic of the tropics
- 68. This facility has the largest astronomical \_\_\_\_\_\_ in the country.
- *n.* a device like a tube in shape containing lenses used to magnify and observe distant objects
- 69. 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
- 70. The scratches on the car \_\_\_\_\_ its otherwise perfect appearance.
- *v.* to damage or spoil the appearance or surface of something
- 71. 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

ANSWERS: 64. Jovian, 65. chemistry, 66. radiation, 67. Tropical, 68. telescope, 69. observe, 70. marred, 71. galaxy

- 72. He couldn't \_\_\_\_\_\_ the actual value of the artwork.
- *v*. to judge or find out the amount or number of something by using mathematics
- 73. This remote \_\_\_\_\_ is rarely visited.
- *n.* a particular location or place; a small round or roundish area, differing in color or feels from the surface around it
- 74. He that would eat the kernel must \_\_\_\_\_ the nut.
  - v. to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking
- 75. \_\_\_\_\_ the bandage tightly around the injured arm.
- v. to cover or enclose something entirely with paper, cloth, or other material
- 76. The \_\_\_\_\_ scarcity most severely impacted the manufacturing sector
- *n.* a substance that is typically burned to generate heat or energy
- 77. The \_\_\_\_\_\_ of water is called ice.
- adj. hard or firm; characterized by good substantial quality
- 78. The band played a beautiful \_\_\_\_\_ on their instruments.
- *n.* a musical composition or set of musical notes that are played or sung; (verb) to adjust or set something to a specific condition or standard
- 79. The old building \_\_\_\_\_ in a fiery inferno.
- v. to burst or break open violently and noisily; to cause something to burst or break open
- 80. The \_\_\_\_\_ launch platform is visible from this hill.
- *n.* a large tube-shaped object that moves very first by a stream of gases let out behind it, used for space travel or as a weapon

ANSWERS: 72. calculate, 73. spot, 74. crack, 75. Wrap, 76. fuel, 77. solid-state, 78. tune, 79. exploded, 80. rocket

- 81. The beach umbrella provided a \_\_\_\_\_\_ for us during the hot summer day.
  - *n.* a device or material used to protect someone or something from the sun's rays, particularly a parasol or umbrella; a structure or covering that shades a window or outdoor area
- 82. 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
- 83. This question has fascinated solar \_\_\_\_\_\_ for decades.
- *n.* a physicist who studies astronomy
- 84. The \_\_\_\_\_\_ ship sank on its maiden voyage.
- *adj.* of or having a great size, power, or influence; of or relating to Titanium (= a light, strong grey, lustrous, corrosion-resistant metallic element)
- 85. Two birds were \_\_\_\_\_ overhead.
- *v.* to stay in one place in the air
- 86. The \_\_\_\_\_ flew over the ocean at high speed, reaching its destination in hours.
- *n.* a type of aircraft that is powered by one or more jet engines and can fly at high speeds, typically over long distances
- 87. NASA sent a \_\_\_\_\_ to study the atmosphere of Jupiter.
- *n.* a tool used for testing or examining, especially for medical or scientific purposes, or an exploratory mission to a planet or other celestial body; (verb) to investigate, examine, or search into something
- 88. Radiation from \_\_\_\_\_ has a different wavelength.
  - *n.* the light emitted by the sun; the rays of the sun

ANSWERS: 81. sunshade, 82. distance, 83. astronomers, 84. titanic, 85. hovering, 86. jet, 87. probe, 88. sunlight

- 89. Launching an artificial \_\_\_\_\_\_ contributed to the technological development of our country.
  - *n.* an electronic device that is sent up into space and moves around the Earth or another planet, used for gathering information or communicating by radio, television, etc.
- 90. \_\_\_\_\_ rays are high-energy particles that originate from outside the solar system.
- adj. relating to the universe or cosmos; vast or limitless
- 91. The doctors said that her recovery was a \_\_\_\_\_.
- *n.* an act or occurrence that is not explicable by natural or scientific laws and is therefore believed to be caused by God
- 92. The actors needed to \_\_\_\_\_\_ their lines before the performance.
  - v. to practice or repeat something, such as a performance, speech, or action, to prepare for an event or to improve one's skills; to go through the motions of a planned activity before executing it
- 93. She opened her \_\_\_\_\_ to protect herself from the rain.
- *n*. a device consisting of a circular canopy of cloth on a central pole used as protection against rain or sometimes against the sun
- 94. In the hospital, she will remain under constant \_\_\_\_\_\_.
- *n.* the act or activity of carefully examining or monitoring something or someone

ANSWERS: 89. satellite, 90. Cosmic, 91. miracle, 92. rehearse, 93. umbrella, 94. observation