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Vocabulary Builder Reference from...

Joanne Chory: How supercharged plants could slow climate change | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

epiphany

n. a moment of sudden and great realization or revelation; a Christian festival, held on 6 January, celebrating the visit of the three wise men to the infant Jesus

synonym: revelation, enlightenment, insight

(1) **epiphany** about life, (2) Feast of **Epiphany**

She had an **epiphany** while meditating and realized the answer to her problem.

humankind

n. the whole of the living human inhabitants of the earth

synonym: humanity, human race, society

(1) **humankind** as a species, (2) history of **humankind**

On the geological time scale, **humankind** has existed for a brief moment.

climate

n. the weather in a particular location averaged over some long period

synonym: atmosphere, weather, environment

(1) a cold **climate**, (2) effects of **climate** change

Climate and weather have an impact on every part of our lifestyles.

dawn

n. the time of day when the sun's light starts to show in the sky

synonym : daybreak, sunrise, advent

(1) the wan light of **dawn**, (2) crack of **dawn**

Missile assaults on the capital continued around **dawn**.

contribution

n. the act of giving something, especially money, to a particular cause or organization; a voluntary gift as of money or service or ideas made to some worthwhile cause

synonym : donation, gift, offering

(1) make a positive **contribution**, (2) **contribution** to society

His **contribution** to the charity was a generous donation of money.

experiment

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

synonym : experimentation, investigation

(1) **experiment** design, (2) series of **experiments**

His **experiments** showed highly positive results.

lab

n. a workplace for the conduct of scientific research; a laboratory

synonym : workshop, laboratory, research chamber

(1) **lab** instrument, (2) medical **lab**

The Prime Minister will pay a courtesy visit to the Nobel laureate's **lab**.

genetics

n. the branch of biology that studies genes, genetic variation, and heredity in organisms

(1) the science of **genetics**, (2) **genetics** discrimination

He is a specialist in the **genetics** of aging.

atmosphere

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

synonym : air, ambiance, circumstances

(1) carbon dioxide in the **atmosphere**, (2) a convivial **atmosphere**

The spaceship began to burn up as it approached the Earth's **atmosphere**.

appreciate

v. to value and acknowledge the worth of someone or something; to be grateful for something or someone

synonym : acknowledge, admire, enjoy

(1) **appreciate** her feedback, (2) **appreciate** the value

We would **appreciate** an early reply.

amazing

adj. extremely surprising, especially in a way that you like or admire

synonym : exceptional, extraordinary, wonderful

(1) **amazing** advances, (2) the most **amazing** feeling

The golfer recorded an **amazing** distance.

urgency

n. the quality of being very important and needing to be dealt with immediately

synonym : importance, importunity, urging

(1) **urgency** in the use of force, (2) matter of **urgency**

She departed hurriedly because of some significant **urgency** in their affairs.

inherit

v. to receive money, property, or a title from someone after they have died

synonym : obtain, gain, acquire

(1) **inherit** estate, (2) **inherit** ancestral property

After his death, his sons **inherited** his business.

incredible

adj. unbelievable; enormous

synonym : unbelievable, fantastical, inconceivable

(1) **incredible** amount, (2) at **incredible** speed

Her response revealed **incredible** idiocy.

planet

n. any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star

synonym : earth, world, globe

(1) **planet** like the Earth, (2) save the **planet**
Mercury is the closest **planet** to the sun.

pollutant

n. a substance or agent that pollutes or contaminates the environment, typically through release into the air, water, or soil

synonym: contaminant, toxic substance

(1) noxious **pollutant**, (2) water **pollutant**

The factory's use of chemicals has made it a significant **pollutant** in the area.

villain

n. a character in a story, movie, or play which often opposes the hero, typically characterized as immoral, evil, or cruel

synonym: scoundrel, rogue, antagonist

(1) evil **villain**, (2) authoritarian **villain**

The **villain** in the movie was a complex character with a tragic backstory.

novel

n. an extended fictional work in prose; usually in the form of a story; (adjective) original and of a kind not seen before

synonym: fiction, story, (adjective) innovative

(1) historical **novel**, (2) **novel** effect

The **novel** has largely gotten positive feedback.

biology

n. the scientific study of life and the natural processes of living things

(1) evolutionary **biology**, (2) cell and molecular **biology**

In junior high school, we had to dissect a frog in **biology** class.

process

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

synonym : procedure, method, system

(1) **process** improvement, (2) decision-making **process**

The **process** for applying for a visa can be lengthy and complicated.

photosynthesis

n. the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.

(1) oxygenic **photosynthesis**, (2) process of **photosynthesis**

In **photosynthesis**, plants use carbon dioxide to feed themselves.

carbon

n. a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals

(1) **carbon** dioxide, (2) **carbon** emission

Trees absorb **carbon** dioxide and give off oxygen.

microbe

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

synonym : germ, microorganism, bacterium

(1) pathogenic **microbe**, (2) **microbes** sterilizer

Microbes thrive on the surface of the human skin.

drag

v. to pull or haul with force

synonym : haul, pull, draw

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

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

sunlight

n. the light emitted by the sun; the rays of the sun

synonym : daylight, rays, sunshine

(1) a glare of **sunlight**, (2) in direct **sunlight**

Radiation from **sunlight** has a different wavelength.

hundredfold

adj. a hundred times as great or as much

(1) rise nearly **hundredfold**, (2) improve **hundredfold**

The development team reported two **hundredfold** increases in performance.

emission

n. the act of production or sending out gas, heat, light, etc.

synonym: emanation, radiation, discharge

(1) global **emissions** of greenhouse gases, (2) the **emission** of light

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

decompose

v. to break down or cause to break down over time into simpler substances or elements

synonym: break down, rot, spoil

(1) **decompose** matter, (2) **decompose** into simpler molecules

After the earthquake, many of the buildings in the city were left in ruins and began to **decompose**.

biomass

n. the total quantity of living matter in a given unit of environment, including plants, animals, and microorganisms

(1) **biomass** energy, (2) fuel **biomass**

The **biomass** in a forest can be measured by collecting and weighing all living plants within a specific area.

redistribute

v. to share something among people in a different way

synonym: rearrange, readjust, reconstruct

(1) **redistribute** income fairly, (2) **redistribute** data

The general **redistributed** the troops more strategically.

stable

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

synonym: sturdy, unmoving, durable

(1) in **stable** condition, (2) have a **stable** job

Relations between the two countries have been relatively

stable due to the summit meeting.

dot

n. a very small circular mark, especially one that is printed
synonym : drop, dab, fleck

(1) connecting the **dots**, (2) **dot** blot method

The wallpaper had a pattern of pink **dots** on a white surface.

molecule

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

synonym : particle, element, atom

(1) small **molecules**, (2) **molecule** behavior

The shape of the DNA **molecule** is a double helix.

oxygen

n. the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live

(1) the hydrogen binds the **oxygen**, (2) lack of **oxygen**

The passenger grabbed for the **oxygen** mask.

storage

n. the act or process of putting in and keeping something in a particular place for use in the future; an electronic memory device that can store information

synonym : storehouse, depository, warehousing

(1) a **storage** battery, (2) **storage** at low temperature

We store customer data in cloud **storage**.

device

n. a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic

synonym : gadget, instrument, tool

(1) electronic **device**, (2) tracking **device**

I always carry a backup **device** in case my phone runs out of battery.

stabilize

v. to become or cause to become steady or unlikely to give way

synonym : brace, steady, secure

(1) **stabilize** prices, (2) **stabilize** blood sugar levels
The raising of interest rates **stabilizes** the inflation rate.

function

n. the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose

synonym: purpose, mapping, job

(1) **function** properly, (2) immune **function**

The brain is an incredibly complex organ that controls the body's **function**.

complicated

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

synonym: complex, convoluted, intricate

(1) a **complicated** process, (2) become increasingly **complicated**

He did **complicated** pen-and-ink drawings in just a few days.

eukaryotic

n. organisms whose cell nuclei are surrounded by a nuclear envelope

(1) **eukaryotic** algae, (2) **eukaryotic** genome

Mitochondria exist in every **eukaryotic** cell.

converge

v. to move or draw together at a specific location; (of lines) to move towards the same point where they join or meet

synonym: congregate, assemble, concentrate

(1) **converge** of a series, (2) **converge** from different points

The two rivers **converge** into one near this area.

genome

n. the complete set or sequence of genes of a human, animal, plant, or other living things

(1) sequencing of the human **genome**, (2) **genome** analyses

The human **genome** contains approximately three billion

chemical base pairs.

relate

v. to establish a connection or association between two or more things; to narrate or tell about an event, experience, or relationship; to empathize or feel sympathy with someone or something

synonym : connect, link, associate

(1) **relate** a story, (2) **relate** a message

He tried to **relate** his experience to the group, but they couldn't understand.

trait

n. a particular feature of your nature

synonym : attribute, feature, quality

(1) chemical **trait**, (2) personality **traits**

Multiple genes may influence behavioral **traits** concurrently.

prediction

n. the act of predicting the future by reasoning; a statement made about the future

synonym : forecast, anticipation, foretelling

(1) make my **predictions**, (2) gloomy **predictions**

These results muddied the **prediction**.

genetic

adj. of or relating to genes (= parts of the DNA in cells) or the science of genes

synonym : hereditary, genetical, inborn

(1) have **genetic** testing, (2) a **genetic** disorder

Understanding protein folding is a vital step in deciphering the **genetic** code.

edit

v. to prepare written material for publication by correcting, condensing, or otherwise modifying it

synonym : revise, modify, adjust

(1) **edit** a history book, (2) **edit** a video

I need to **edit** this document before submitting it to my boss.

norm

n. something that is regarded as usual, typical, or standard

synonym : criterion, mean, standard

(1) **norm** of action, (2) cultural **norm**

The systems we have developed has accepted as industry **norms**.

propose

v. to make a proposal, declare a plan for something
synonym: suggest, offer, recommend

(1) **propose** the amendment, (2) **propose** changes
I want to **propose** a toast in honor of our longstanding relationship.

involve

v. to include or affect someone or something as a necessary part of something else

synonym: implicate, include, engage

(1) **involve** a lot of paperwork, (2) **involve** a high degree of risk

The investigation **involves** several government agencies and is expected to take several months.

evolve

v. to develop gradually, or to cause the development of something or someone gradually

synonym: develop, mature, grow

(1) **evolve**, (2) **evolve** over the past decade
Eyeless fish **evolved** in dark caves.

rescue

v. to save someone or something from a dangerous or difficult situation

synonym: save, extricate, retrieve

(1) **rescue** a dying dog, (2) **rescue** a company from bankruptcy

The fire department arrived just in time to **rescue** the family from the burning building.

normally

adv. usually; under normal conditions

synonym: commonly, generally, naturally

(1) complete **normally**, (2) not **normally** drink much
I don't **normally** take a vacation in the middle of summer.

accumulate

v. to collect or acquire a large number of things over a long period of time

synonym: amass, stash, earn

(1) **accumulate** cash value, (2) **accumulate** evidence

He has **accumulated** his wealth through real estate investments.

bury

v. to place a dead body in the ground, grave, or tomb

synonym: entomb, sink, forget

(1) **bury** in the earth, (2) **bury** emotion

There is plenty of space to **bury** everyone.

meander

v. to wander or roam aimlessly or leisurely; to follow a winding or circuitous course, as a river or road

synonym: wander, zigzag, twist

(1) **meander** down the river, (2) **meander** aimlessly

We decided to **meander** through the park and enjoy the scenery.

soil

n. the top layer of Earth in which plants grow

synonym: earth, ground, mud

(1) **soils** retentive of moisture, (2) parched **soil**

Soil moisture is another significant component controlling soil respiration.

combine

v. to join or merge to form a single thing or group

synonym: coalesce, cohere, blend

(1) **combine** chemically with another substance,

(2) **combine** augmented reality

Hydrogen and oxygen **combine** to form water.

crop

n. a plant that is cultivated in large amounts, particularly for food

synonym: output, produce, product

(1) **crop** field, (2) **crop** herbicide

Sow early for an early **crop**.

confident

adj. feeling sure about your abilities or qualities or having trust in people, plans, or the future

synonym : certain, sure, convinced

(1) feel **confident**, (2) a **confident** remark

I'm not **confident** in our victory.

slightly

adv. in a small degree or extent; a little

synonym : barely, narrowly, scarcely

(1) increase **slightly**, (2) **slightly** alkaline soils

He moved his body **slightly** to the left.

yield

n. the total output of crops, profits, etc. that are produced;
(verb) to produce or supply helpful something, such as a profit, an amount of food, or information

synonym : proceeds, harvest, output

(1) corn **yield**, (2) the **yield** on the bond

The company's stock gives a high **yield**.

ecosystem

n. all the plants and living creatures in an area and the way they affect each other and the environment

(1) marine **ecosystem**, (2) change the **ecosystem**

Human conservation efforts often fail unexpectedly because they disturb the balance of the **ecosystem**.

handle

v. to deal with a situation, problem, or strong emotion

synonym : control, manage, deal with

(1) **handle** a precious object, (2) **handled** the incident

We all should learn how to **handle** stress.

agriculture

n. the practice or science of cultivating the land or raising stock

synonym : farming, husbandry, agribusiness

(1) organic **agriculture**, (2) intensive **agriculture**

Agriculture is the foundation of our economy.

competition

n. a situation in which someone is attempting to beat or outperform another

synonym : contest, match, fight

(1) the first round of the **competition**, (2) intraspecific **competition**

Global **competition** is rising in virtually every industry.

sequester

v. to take temporary possession of someone's property until a debt is paid.

synonym : isolate, set apart, segregate

(1) **sequester** ten percent of the annual carbon emissions, (2) **sequester** myself from the world

He approved their requests to **sequester** the jury.

crisis

n. a time of great disagreement, confusion, or danger when problems must be resolved or critical decisions must be taken

synonym : concern, problem, emergency

(1) financial **crisis**, (2) **crisis** management

The Chinese word for **crisis** comprises two characters, one for danger and the other for opportunity.

balance

n. a condition in which everything has the same weight or force; something left after other parts have been taken away

synonym : equilibrium, counterpoise, remainder

(1) the **balance** of power, (2) asset on the company's **balance** sheet

Try to keep a **balance** between work and off.

deplete

v. to reduce something, especially supplies of energy, money, etc., by a large amount; to use up resources or materials

synonym : exhaust, consume, use up

(1) **deplete** customer confidence, (2) **deplete** glycogen stores

If we continue to **deplete** the Earth's natural resources, we will cause severe damage to the environment.

enrich

v. to make better or improve in quality by adding something else

synonym: enhance, improve, augment

(1) **enrich** a gas with a balloon, (2) **enrich** public services

Reading not only increases knowledge but also **enriches** life.

nitrogen

n. a chemical element with the symbol N and atomic number 7, which is a highly reactive element that forms part of many compounds, including amino acids and proteins

(1) heavy **nitrogen**, (2) **nitrogen** absorption

Nitrogen gas is used to inflate car tires because it does not react with rubber.

sulfur

n. (also sulphur) a chemical element with the symbol S and atomic number 16, found in many minerals and sulfur compounds, often used in the production of fertilizers, rubber, paper, and other industrial applications

(1) **sulfur** dioxide, (2) **sulfur** mine

The **sulfur** emissions from the nearby factory caused the rotten egg smell.

phosphate

n. a chemical compound made up of phosphorus (= a chemical element with the symbol P) and oxygen (= a chemical element with the symbol O), often used in fertilizers, detergents, and other industrial processes

(1) calcium **phosphate**, (2) sodium **phosphate**

The buildup of **phosphate** in the soil can cause it to become too acidic, which can be harmful to plants.

mineral

n. a solid inorganic substance occurring in nature having a definite chemical composition

(1) vitamin and **minerals**, (2) **mineral** rights

The robust economy of the country is based on its **mineral** resources.

retain

v. to keep or continue to possess or maintain something
synonym: possess, hold, keep on

(1) **retain** information, (2) **retain** a lawyer

Computers help people **retain** specific memories.

particle

n. a small piece of something; a word or piece of a term with grammatical function but little or no significance

synonym: atom, grain, bit

(1) charged **particle**, (2) **particle** energy

We can calculate the position of the **particles** statistically.

salesperson

n. a person whose job is to sell goods in a shop or directly to customers

synonym: dealer, seller, vendor

(1) a **salesperson** in a store, (2) a drapery **salesperson**

He received the title of the best **salesperson** in all our branches worldwide.

deny

v. to state that one refuses to admit the existence or truth of something

synonym: refute, reject, repudiate

(1) adamantly **deny** killing, (2) **deny** the allegations

He is still **denying** stealing the money from the cash register.

optimistic

adj. hoping or expecting that good thing will happen or something will be successful

synonym: hopeful, auspicious, cheery

(1) he is **optimistic**, (2) **optimistic** outlook

Most executives were **optimistic** about future business conditions.

witness

n. a person who sees something happen, especially a crime or an accident

synonym: onlooker, attestant, bystander

(1) **witness** of the car accident, (2) a material **witness**

The manufacturing industry is **witnessing** fierce competition.

medal

n. a flat, usually circular piece of metal or other material that is often given as an award or commemoration for an achievement, victory, or honor

synonym : award, decoration, badge

(1) gold **medal**, (2) a prize **medal**

She was proud to receive a **medal** for her hard work and dedication to the sport.

extraordinary

adj. exceptional, unexpected, very unusual; surpassing the ordinary or usual

synonym : exceptional, noteworthy, astonishing

(1) **extraordinary** ability, (2) **extraordinary** weather

He narrated the **extraordinary** story of his adventure.

variant

n. something that is slightly different from others of the same type

synonym : variation, modification, variance

(1) **variant** types of pigeon, (2) a **variant** of the same word

The first **variant** of the virus appeared in less than a month.

wheat

n. a cereal plant that is the most important kind grown in temperate countries, the grain of which is ground to make flour for bread, pasta, pastry, etc

synonym : grain, cereal

(1) harvesting **wheat**, (2) **wheat** crop

The farmer grew **wheat** on his land.

fertile

adj. capable of producing abundant vegetation or crops; intellectually productive

synonym : fruitful, productive, rich

(1) **fertile** ground, (2) **fertile** market

Herbs require **fertile** soil in a sunny, sheltered location.

astonishing

adj. surprising or shocking; difficult to believe

synonym : surprising, shocking, astounding

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

The news of her sudden death was **astonishing** to everyone

who knew her.

genius

n. someone who has exceptional intellectual ability and originality

synonym: brilliance, brainiac, acumen

(1) a person of **genius**, (2) a **genius** for music
Mozart was a musical **genius**.

audacious

adj. showing a willingness to take bold risks or to do something that is considered unconventional or daring; marked by originality, creativity, or boldness

synonym: bold, daring, fearless

(1) **audacious** stunt, (2) **audacious** decision

The young entrepreneur had an **audacious** plan to start his own company.

pave

v. to cover something with a hard, flat material such as stones, bricks, or concrete, to make it suitable for travel or use

synonym: surface, coat, cover

(1) **pave** a new path, (2) **pave** a smoother road

They **paved** the courtyard with bricks, giving it a more polished appearance.

pilot

n. a person who flies an aircraft, especially as a job; a person qualified to guide ships through a difficult area of water

synonym: aviator, flyer, chief

(1) a test **pilot**, (2) **pilot** production

The **pilot** exercised great care in landing.

vision

n. the ability to think about or see the future with imagination and intelligence; the faculty of being able to see

synonym: sight, image, concept

(1) a prodigious **vision**, (2) telescopic **vision**

Driving is difficult for me because of my poor **vision**.

Session 2: Spelling

1. electronic de___e *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
2. make a positive con_____ion *n.* the act of giving something, especially money, to a particular cause or organization; a voluntary gift as of money or service or ideas made to some worthwhile cause
3. in_____t ancestral property *v.* to receive money, property, or a title from someone after they have died
4. asset on the company's ba_____e sheet *n.* a condition in which everything has the same weight or force; something left after other parts have been taken away
5. p__e a new path *v.* to cover something with a hard, flat material such as stones, bricks, or concrete, to make it suitable for travel or use
6. p__e a smoother road *v.* to cover something with a hard, flat material such as stones, bricks, or concrete, to make it suitable for travel or use
7. authoritarian vi_____n *n.* a character in a story, movie, or play which often opposes the hero, typically characterized as immoral, evil, or cruel
8. wh__t crop *n.* a cereal plant that is the most important kind grown in temperate countries, the grain of which is ground to make flour for bread, pasta, pastry, etc

ANSWERS: 1. device, 2. contribution, 3. inherit, 4. balance, 5. pave, 6. pave, 7. villain, 8. wheat

- | | |
|-------------------------------------|---|
| 9. a va_____t of the same word | <i>n.</i> something that is slightly different from others of the same type |
| 10. personality tr__ts | <i>n.</i> a particular feature of your nature |
| 11. pr_____e changes | <i>v.</i> to make a proposal, declare a plan for something |
| 12. pathogenic mi_____e | <i>n.</i> a tiny living thing that can only be seen with a microscope and that may cause disease |
| 13. harvesting wh__t | <i>n.</i> a cereal plant that is the most important kind grown in temperate countries, the grain of which is ground to make flour for bread, pasta, pastry, etc |
| 14. a convivial atm_____re | <i>n.</i> the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work |
| 15. telescopic vi____n | <i>n.</i> the ability to think about or see the future with imagination and intelligence; the faculty of being able to see |
| 16. en____h public services | <i>v.</i> to make better or improve in quality by adding something else |
| 17. sequencing of the human ge____e | <i>n.</i> the complete set or sequence of genes of a human, animal, plant, or other living things |
| 18. cr____s management | <i>n.</i> a time of great disagreement, confusion, or danger when problems must be resolved or critical decisions must be taken |
| 19. app_____te the value | <i>v.</i> to value and acknowledge the worth of someone or something; to be grateful for something or someone |

ANSWERS: 9. variant, 10. trait, 11. propose, 12. microbe, 13. wheat, 14. atmosphere, 15. vision, 16. enrich, 17. genome, 18. crisis, 19. appreciate

20. Feast of Ep_____ny *n.* a moment of sudden and great realization or revelation; a Christian festival, held on 6 January, celebrating the visit of the three wise men to the infant Jesus
21. marine ec_____em *n.* all the plants and living creatures in an area and the way they affect each other and the environment
22. de_____e customer confidence *v.* to reduce something, especially supplies of energy, money, etc., by a large amount; to use up resources or materials
23. d__g a team down *v.* to pull or haul with force
24. small mo_____les *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
25. re____n information *v.* to keep or continue to possess or maintain something
26. au_____us decision *adj.* showing a willingness to take bold risks or to do something that is considered unconventional or daring; marked by originality, creativity, or boldness
27. he is opt_____ic *adj.* hoping or expecting that good thing will happen or something will be successful
28. a drapery sal_____on *n.* a person whose job is to sell goods in a shop or directly to customers
29. sodium ph_____te *n.* a chemical compound made up of phosphorus (= a chemical element with the symbol P) and oxygen (= a chemical element with the symbol O), often used in fertilizers, detergents, and other industrial processes

ANSWERS: 20. epiphany, 21. ecosystem, 22. deplete, 23. drag, 24. molecule, 25. retain, 26. audacious, 27. optimistic, 28. salesperson, 29. phosphate

30. hu_____nd as a species *n.* the whole of the living human inhabitants of the earth
31. va_____t types of pigeon *n.* something that is slightly different from others of the same type
32. the first round of the com_____on *n.* a situation in which someone is attempting to beat or outperform another
33. cell and molecular bi_____y *n.* the scientific study of life and the natural processes of living things
34. su____r dioxide *n.* (also sulphur) a chemical element with the symbol S and atomic number 16, found in many minerals and sulfur compounds, often used in the production of fertilizers, rubber, paper, and other industrial applications
35. exp_____nt design *n.* the scientific test conducted to observe what happens and gain new knowledge
36. st_____e at low temperature *n.* the act or process of putting in and keeping something in a particular place for use in the future; an electronic memory device that can store information
37. st_____ze prices *v.* to become or cause to become steady or unlikely to give way
38. tracking de____e *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
39. increase sl_____ly *adv.* in a small degree or extent; a little

ANSWERS: 30. humankind, 31. variant, 32. competition, 33. biology, 34. sulfur, 35. experiment, 36. storage, 37. stabilize, 38. device, 39. slightly

40. in_____e a lot of paperwork *v.* to include or affect someone or something as a necessary part of something else
41. the yi__d on the bond *n.* the total output of crops, profits, etc. that are produced; (verb) to produce or supply helpful something, such as a profit, an amount of food, or information
42. fu_____on properly *n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
43. red_____ute income fairly *v.* to share something among people in a different way
44. crack of d__n *n.* the time of day when the sun's light starts to show in the sky
45. de_____e glycogen stores *v.* to reduce something, especially supplies of energy, money, etc., by a large amount; to use up resources or materials
46. history of hu_____nd *n.* the whole of the living human inhabitants of the earth
47. ha___ed the incident *v.* to deal with a situation, problem, or strong emotion
48. n__m of action *n.* something that is regarded as usual, typical, or standard

ANSWERS: 40. involve, 41. yield, 42. function, 43. redistribute, 44. dawn, 45. deplete, 46. humankind, 47. handle, 48. norm

49. oxygenic pho_____sis *n.* the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.
50. au_____us stunt *adj.* showing a willingness to take bold risks or to do something that is considered unconventional or daring; marked by originality, creativity, or boldness
51. a prodigious vi____n *n.* the ability to think about or see the future with imagination and intelligence; the faculty of being able to see
52. a prize me__l *n.* a flat, usually circular piece of metal or other material that is often given as an award or commemoration for an achievement, victory, or honor
53. parched s__l *n.* the top layer of Earth in which plants grow
54. organic agr_____re *n.* the practice or science of cultivating the land or raising stock
55. bi_____s energy *n.* the total quantity of living matter in a given unit of environment, including plants, animals, and microorganisms
56. ast_____ng achievement *adj.* surprising or shocking; difficult to believe
57. ca____n emission *n.* a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals

ANSWERS: 49. photosynthesis, 50. audacious, 51. vision, 52. medal, 53. soil, 54. agriculture, 55. biomass, 56. astonishing, 57. carbon

- | | | |
|---------------------------|-----------|---|
| 58. medical l_b | <i>n.</i> | a workplace for the conduct of scientific research; a laboratory |
| 59. pr_____s improvement | <i>n.</i> | 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 |
| 60. chemical tr__t | <i>n.</i> | a particular feature of your nature |
| 61. re___e a story | <i>v.</i> | to establish a connection or association between two or more things; to narrate or tell about an event, experience, or relationship; to empathize or feel sympathy with someone or something |
| 62. a material wi_____s | <i>n.</i> | a person who sees something happen, especially a crime or an accident |
| 63. evil vi_____n | <i>n.</i> | a character in a story, movie, or play which often opposes the hero, typically characterized as immoral, evil, or cruel |
| 64. series of exp_____nts | <i>n.</i> | the scientific test conducted to observe what happens and gain new knowledge |
| 65. save the pl___t | <i>n.</i> | any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star |
| 66. a st_____e battery | <i>n.</i> | the act or process of putting in and keeping something in a particular place for use in the future; an electronic memory device that can store information |

ANSWERS: 58. lab, 59. process, 60. trait, 61. relate, 62. witness, 63. villain, 64. experiment, 65. planet, 66. storage

67. ep____ny about life *n.* a moment of sudden and great realization or revelation; a Christian festival, held on 6 January, celebrating the visit of the three wise men to the infant Jesus
68. c__p herbicide *n.* a plant that is cultivated in large amounts, particularly for food
69. water po_____nt *n.* a substance or agent that pollutes or contaminates the environment, typically through release into the air, water, or soil
70. co_____e augmented reality *v.* to join or merge to form a single thing or group
71. ge_____cs discrimination *n.* the branch of biology that studies genes, genetic variation, and heredity in organisms
72. re___e a company from bankruptcy *v.* to save someone or something from a dangerous or difficult situation
73. re___n a lawyer *v.* to keep or continue to possess or maintain something
74. se_____er myself from the world *v.* to take temporary possession of someone's property until a debt is paid.
75. red_____ute data *v.* to share something among people in a different way
76. heavy ni_____en *n.* a chemical element with the symbol N and atomic number 7, which is a highly reactive element that forms part of many compounds, including amino acids and proteins

ANSWERS: 67. epiphany, 68. crop, 69. pollutant, 70. combine, 71. genetics, 72. rescue, 73. retain, 74. sequester, 75. redistribute, 76. nitrogen

77. a ge___s for music *n.* someone who has exceptional intellectual ability and originality
78. ur_____y in the use of force *n.* the quality of being very important and needing to be dealt with immediately
79. st_____ze blood sugar levels *v.* to become or cause to become steady or unlikely to give way
80. have ge_____c testing *adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes
81. ev___e over the past decade *v.* to develop gradually, or to cause the development of something or someone gradually
82. acc_____te cash value *v.* to collect or acquire a large number of things over a long period of time
83. pr_____e the amendment *v.* to make a proposal, declare a plan for something
84. co_____e chemically with another substance *v.* to join or merge to form a single thing or group
85. lack of ox___n *n.* the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live
86. intensive agr_____re *n.* the practice or science of cultivating the land or raising stock
87. the science of ge_____cs *n.* the branch of biology that studies genes, genetic variation, and heredity in organisms
88. inc_____le amount *adj.* unbelievable; enormous
89. co_____ge from different points *v.* to move or draw together at a specific location; (of lines) to move towards the same point where they join or meet

ANSWERS: 77. genius, 78. urgency, 79. stabilize, 80. genetic, 81. evolve, 82. accumulate, 83. propose, 84. combine, 85. oxygen, 86. agriculture, 87. genetics, 88. incredible, 89. converge

90. evolutionary bi____y *n.* the scientific study of life and the natural processes of living things
91. c__p field *n.* a plant that is cultivated in large amounts, particularly for food
92. sl____ly alkaline soils *adv.* in a small degree or extent; a little
93. the wan light of d__n *n.* the time of day when the sun's light starts to show in the sky
94. con_____ion to society *n.* the act of giving something, especially money, to a particular cause or organization; a voluntary gift as of money or service or ideas made to some worthwhile cause
95. make ast_____ng gains *adj.* surprising or shocking; difficult to believe
96. mi_____l rights *n.* a solid inorganic substance occurring in nature having a definite chemical composition
97. rise nearly hun_____ld *adj.* a hundred times as great or as much
98. fuel bi_____s *n.* the total quantity of living matter in a given unit of environment, including plants, animals, and microorganisms
99. the hydrogen binds the ox____n *n.* the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live
100. b__y emotion *v.* to place a dead body in the ground, grave, or tomb
101. cultural n__m *n.* something that is regarded as usual, typical, or standard

ANSWERS: 90. biology, 91. crop, 92. slightly, 93. dawn, 94. contribution, 95. astonishing, 96. mineral, 97. hundredfold, 98. biomass, 99. oxygen, 100. bury, 101. norm

102. acc_____te evidence *v.* to collect or acquire a large number of things over a long period of time
103. de_____se matter *v.* to break down or cause to break down over time into simpler substances or elements
104. make my pre_____ons *n.* the act of predicting the future by reasoning; a statement made about the future
105. immune fu_____on *n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
106. de_____se into simpler molecules *v.* to break down or cause to break down over time into simpler substances or elements
107. calcium ph_____te *n.* a chemical compound made up of phosphorus (= a chemical element with the symbol P) and oxygen (= a chemical element with the symbol O), often used in fertilizers, detergents, and other industrial processes
108. a glare of su_____ht *n.* the light emitted by the sun; the rays of the sun
109. ca____n dioxide *n.* a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals

ANSWERS: 102. accumulate, 103. decompose, 104. prediction, 105. function, 106. decompose, 107. phosphate, 108. sunlight, 109. carbon

110. vitamin and mi_____ls *n.* a solid inorganic substance occurring in nature having a definite chemical composition
111. a ge_____c disorder *adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes
112. become increasingly com_____ed *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
113. co_____ge of a series *v.* to move or draw together at a specific location; (of lines) to move towards the same point where they join or meet
114. a sal_____on in a store *n.* a person whose job is to sell goods in a shop or directly to customers
115. adamantly d__y killing *v.* to state that one refuses to admit the existence or truth of something
116. l_b instrument *n.* a workplace for the conduct of scientific research; a laboratory
117. su___r mine *n.* (also sulphur) a chemical element with the symbol S and atomic number 16, found in many minerals and sulfur compounds, often used in the production of fertilizers, rubber, paper, and other industrial applications
118. in_____e a high degree of risk *v.* to include or affect someone or something as a necessary part of something else
119. charged pa_____le *n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance

ANSWERS: 110. mineral, 111. genetic, 112. complicated, 113. converge, 114. salesperson, 115. deny, 116. lab, 117. sulfur, 118. involve, 119. particle

120. ev___e *v.* to develop gradually, or to cause the development of something or someone gradually
121. in direct su_____ht *n.* the light emitted by the sun; the rays of the sun
122. no__l effect *n.* an extended fictional work in prose; usually in the form of a story; (adjective) original and of a kind not seen before
123. improve hun_____ld *adj.* a hundred times as great or as much
124. historical no__l *n.* an extended fictional work in prose; usually in the form of a story; (adjective) original and of a kind not seen before
125. complete no_____ly *adv.* usually; under normal conditions
126. a person of ge___s *n.* someone who has exceptional intellectual ability and originality
127. pa_____le energy *n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance
128. change the ec_____em *n.* all the plants and living creatures in an area and the way they affect each other and the environment
129. ha___e a precious object *v.* to deal with a situation, problem, or strong emotion
130. e__t a history book *v.* to prepare written material for publication by correcting, condensing, or otherwise modifying it
131. s__ls retentive of moisture *n.* the top layer of Earth in which plants grow

ANSWERS: 120. evolve, 121. sunlight, 122. novel, 123. hundredfold, 124. novel, 125. normally, 126. genius, 127. particle, 128. ecosystem, 129. handle, 130. edit, 131. soil

132. connecting the d_ots *n.* a very small circular mark, especially one that is printed
133. process of pho_____sis *n.* the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.
134. re___e a message *v.* to establish a connection or association between two or more things; to narrate or tell about an event, experience, or relationship; to empathize or feel sympathy with someone or something
135. effects of cl_____e change *n.* the weather in a particular location averaged over some long period
136. app_____te her feedback *v.* to value and acknowledge the worth of someone or something; to be grateful for something or someone
137. at inc_____le speed *adj.* unbelievable; enormous
138. me_____r down the river *v.* to wander or roam aimlessly or leisurely; to follow a winding or circuitous course, as a river or road
139. noxious po_____nt *n.* a substance or agent that pollutes or contaminates the environment, typically through release into the air, water, or soil
140. fe_____e ground *adj.* capable of producing abundant vegetation or crops; intellectually productive
141. opt_____ic outlook *adj.* hoping or expecting that good thing will happen or something will be successful

ANSWERS: 132. dot, 133. photosynthesis, 134. relate, 135. climate, 136. appreciate, 137. incredible, 138. meander, 139. pollutant, 140. fertile, 141. optimistic

142. corn yi__d *n.* the total output of crops, profits, etc. that are produced; (verb) to produce or supply helpful something, such as a profit, an amount of food, or information
143. wi____s of the car accident *n.* a person who sees something happen, especially a crime or an accident
144. a test pi__t *n.* a person who flies an aircraft, especially as a job; a person qualified to guide ships through a difficult area of water
145. pl___t like the Earth *n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
146. en___h a gas with a balloon *v.* to make better or improve in quality by adding something else
147. feel co_____nt *adj.* feeling sure about your abilities or qualities or having trust in people, plans, or the future
148. in st___e condition *adj.* firm and steady; not easily moved, disturbed, or changed
149. b__y in the earth *v.* to place a dead body in the ground, grave, or tomb
150. d__y the allegations *v.* to state that one refuses to admit the existence or truth of something
151. d_t blot method *n.* a very small circular mark, especially one that is printed
152. a cold cl_____e *n.* the weather in a particular location averaged over some long period
153. mi_____es sterilizer *n.* a tiny living thing that can only be seen with a microscope and that may cause disease

ANSWERS: 142. yield, 143. witness, 144. pilot, 145. planet, 146. enrich, 147. confident, 148. stable, 149. bury, 150. deny, 151. dot, 152. climate, 153. microbe

154. the em_____on of light *n.* the act of production or sending out gas, heat, light, etc.
155. re___e a dying dog *v.* to save someone or something from a dangerous or difficult situation
156. gloomy pre_____ons *n.* the act of predicting the future by reasoning; a statement made about the future
157. mo_____le behavior *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
158. ni_____en absorption *n.* a chemical element with the symbol N and atomic number 7, which is a highly reactive element that forms part of many compounds, including amino acids and proteins
159. ext_____ary ability *adj.* exceptional, unexpected, very unusual; surpassing the ordinary or usual
160. pi__t production *n.* a person who flies an aircraft, especially as a job; a person qualified to guide ships through a difficult area of water
161. fe_____e market *adj.* capable of producing abundant vegetation or crops; intellectually productive
162. not no_____ly drink much *adv.* usually; under normal conditions
163. a co_____nt remark *adj.* feeling sure about your abilities or qualities or having trust in people, plans, or the future
164. the most am_____g feeling *adj.* extremely surprising, especially in a way that you like or admire

ANSWERS: 154. emission, 155. rescue, 156. prediction, 157. molecule, 158. nitrogen, 159. extraordinary, 160. pilot, 161. fertile, 162. normally, 163. confident, 164. amazing

165. a com_____ed process *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
166. gold me__l *n.* a flat, usually circular piece of metal or other material that is often given as an award or commemoration for an achievement, victory, or honor
167. have a st___e job *adj.* firm and steady; not easily moved, disturbed, or changed
168. in_____t estate *v.* to receive money, property, or a title from someone after they have died
169. decision-making pr_____s *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
170. financial cr___s *n.* a time of great disagreement, confusion, or danger when problems must be resolved or critical decisions must be taken
171. global em_____ons of greenhouse gases *n.* the act of production or sending out gas, heat, light, etc.
172. ext_____ary weather *adj.* exceptional, unexpected, very unusual; surpassing the ordinary or usual
173. euk_____ic genome *n.* organisms whose cell nuclei are surrounded by a nuclear envelope

ANSWERS: 165. complicated, 166. medal, 167. stable, 168. inherit, 169. process, 170. crisis, 171. emission, 172. extraordinary, 173. eukaryotic

174. the ba____e of power *n.* a condition in which everything has the same weight or force; something left after other parts have been taken away
175. d__g a chair over *v.* to pull or haul with force
176. euk____ic algae *n.* organisms whose cell nuclei are surrounded by a nuclear envelope
177. me____r aimlessly *v.* to wander or roam aimlessly or leisurely; to follow a winding or circuitous course, as a river or road
178. se____er ten percent of the annual carbon emissions *v.* to take temporary possession of someone's property until a debt is paid.
179. am____g advances *adj.* extremely surprising, especially in a way that you like or admire
180. ge___e analyses *n.* the complete set or sequence of genes of a human, animal, plant, or other living things
181. matter of ur____y *n.* the quality of being very important and needing to be dealt with immediately
182. intraspecific com_____on *n.* a situation in which someone is attempting to beat or outperform another
183. e__t a video *v.* to prepare written material for publication by correcting, condensing, or otherwise modifying it
184. carbon dioxide in the atm_____re *n.* the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work

ANSWERS: 174. balance, 175. drag, 176. eukaryotic, 177. meander, 178. sequester, 179. amazing, 180. genome, 181. urgency, 182. competition, 183. edit, 184. atmosphere

Session 3: Fill in the Blanks

1. The human _____ contains approximately three billion chemical base pairs.
n. the complete set or sequence of genes of a human, animal, plant, or other living things

2. On the geological time scale, _____ has existed for a brief moment.
n. the whole of the living human inhabitants of the earth

3. Global _____ is rising in virtually every industry.
n. a situation in which someone is attempting to beat or outperform another

4. The golfer recorded an _____ distance.
adj. extremely surprising, especially in a way that you like or admire

5. Driving is difficult for me because of my poor _____.
n. the ability to think about or see the future with imagination and intelligence; the faculty of being able to see

6. He tried to _____ his experience to the group, but they couldn't understand.
v. to establish a connection or association between two or more things; to narrate or tell about an event, experience, or relationship; to empathize or feel sympathy with someone or something

7. The _____ has largely gotten positive feedback.
n. an extended fictional work in prose; usually in the form of a story; (adjective) original and of a kind not seen before

8. Her response revealed _____ idiocy.
adj. unbelievable; enormous

ANSWERS: 1. genome, 2. humankind, 3. competition, 4. amazing, 5. vision, 6. relate, 7. novel, 8. incredible

9. I'm not _____ in our victory.

adj. feeling sure about your abilities or qualities or having trust in people, plans, or the future

10. Understanding protein folding is a vital step in deciphering the _____ code.

adj. of or relating to genes (= parts of the DNA in cells) or the science of genes

11. The two rivers _____ into one near this area.

v. to move or draw together at a specific location; (of lines) to move towards the same point where they join or meet

12. _____ is the foundation of our economy.

n. the practice or science of cultivating the land or raising stock

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

adj. surprising or shocking; difficult to believe

14. We store customer data in cloud _____.

n. the act or process of putting in and keeping something in a particular place for use in the future; an electronic memory device that can store information

15. The _____ in a forest can be measured by collecting and weighing all living plants within a specific area.

n. the total quantity of living matter in a given unit of environment, including plants, animals, and microorganisms

16. The investigation _____ several government agencies and is expected to take several months.

v. to include or affect someone or something as a necessary part of something else

ANSWERS: 9. confident, 10. genetic, 11. converge, 12. Agriculture, 13. astonishing, 14. storage, 15. biomass, 16. involves

17. He is still _____ stealing the money from the cash register.
v. to state that one refuses to admit the existence or truth of something
18. _____ moisture is another significant component controlling soil respiration.
n. the top layer of Earth in which plants grow
19. I don't _____ take a vacation in the middle of summer.
adv. usually; under normal conditions
20. 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
21. He narrated the _____ story of his adventure.
adj. exceptional, unexpected, very unusual; surpassing the ordinary or usual
22. He approved their requests to _____ the jury.
v. to take temporary possession of someone's property until a debt is paid.
23. In _____ plants use carbon dioxide to feed themselves.
n. the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.
24. He is a specialist in the _____ of aging.
n. the branch of biology that studies genes, genetic variation, and heredity in organisms
25. The passenger grabbed for the _____ mask.
n. the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live

ANSWERS: 17. denying, 18. Soil, 19. normally, 20. particles, 21. extraordinary, 22. sequester, 23. photosynthesis, 24. genetics, 25. oxygen

26. The manufacturing industry is _____ fierce competition.
n. a person who sees something happen, especially a crime or an accident
27. The _____ in the movie was a complex character with a tragic backstory.
n. a character in a story, movie, or play which often opposes the hero, typically characterized as immoral, evil, or cruel
28. The company's stock gives a high _____.
n. the total output of crops, profits, etc. that are produced; (verb) to produce or supply helpful something, such as a profit, an amount of food, or information
29. Eyeless fish _____ in dark caves.
v. to develop gradually, or to cause the development of something or someone gradually
30. 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
31. The farmer grew _____ on his land.
n. a cereal plant that is the most important kind grown in temperate countries, the grain of which is ground to make flour for bread, pasta, pastry, etc
32. The young entrepreneur had an _____ plan to start his own company.
adj. showing a willingness to take bold risks or to do something that is considered unconventional or daring; marked by originality, creativity, or boldness
33. We decided to _____ through the park and enjoy the scenery.
v. to wander or roam aimlessly or leisurely; to follow a winding or circuitous course, as a river or road

ANSWERS: 26. witnessing, 27. villain, 28. yield, 29. evolved, 30. process, 31. wheat, 32. audacious, 33. meander

34. There is plenty of space to _____ everyone.

v. to place a dead body in the ground, grave, or tomb

35. After the earthquake, many of the buildings in the city were left in ruins and began to _____.

v. to break down or cause to break down over time into simpler substances or elements

36. There are five distinct _____ at five unique wavelengths.

n. the act of production or sending out gas, heat, light, etc.

37. _____ gas is used to inflate car tires because it does not react with rubber.

n. a chemical element with the symbol N and atomic number 7, which is a highly reactive element that forms part of many compounds, including amino acids and proteins

38. The first _____ of the virus appeared in less than a month.

n. something that is slightly different from others of the same type

39. Most executives were _____ about future business conditions.

adj. hoping or expecting that good thing will happen or something will be successful

40. He _____ the heavy suitcase behind him as he walked.

v. to pull or haul with force

41. I always carry a backup _____ in case my phone runs out of battery.

n. a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic

ANSWERS: 34. bury, 35. decompose, 36. emissions, 37. Nitrogen, 38. variant, 39. optimistic, 40. dragged, 41. device

42. _____ thrive on the surface of the human skin.
- n.* a tiny living thing that can only be seen with a microscope and that may cause disease
43. The buildup of _____ in the soil can cause it to become too acidic, which can be harmful to plants.
- n.* a chemical compound made up of phosphorus (= a chemical element with the symbol P) and oxygen (= a chemical element with the symbol O), often used in fertilizers, detergents, and other industrial processes
44. They _____ the courtyard with bricks, giving it a more polished appearance.
- v.* to cover something with a hard, flat material such as stones, bricks, or concrete, to make it suitable for travel or use
45. The Prime Minister will pay a courtesy visit to the Nobel laureate's _____.
- n.* a workplace for the conduct of scientific research; a laboratory
46. The factory's use of chemicals has made it a significant _____ in the area.
- n.* a substance or agent that pollutes or contaminates the environment, typically through release into the air, water, or soil
47. The systems we have developed has accepted as industry _____.
- n.* something that is regarded as usual, typical, or standard
48. These results muddied the _____.
- n.* the act of predicting the future by reasoning; a statement made about the future
49. Sow early for an early _____.
- n.* a plant that is cultivated in large amounts, particularly for food

ANSWERS: 42. Microbes, 43. phosphate, 44. paved, 45. lab, 46. pollutant, 47. norms, 48. prediction, 49. crop

50. Missile assaults on the capital continued around _____.
n. the time of day when the sun's light starts to show in the sky
51. 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
52. Multiple genes may influence behavioral _____ concurrently.
n. a particular feature of your nature
53. She departed hurriedly because of some significant _____ in their affairs.
n. the quality of being very important and needing to be dealt with immediately
54. If we continue to _____ the Earth's natural resources, we will cause severe damage to the environment.
v. to reduce something, especially supplies of energy, money, etc., by a large amount; to use up resources or materials
55. The Chinese word for _____ comprises two characters, one for danger and the other for opportunity.
n. a time of great disagreement, confusion, or danger when problems must be resolved or critical decisions must be taken
56. Try to keep a _____ between work and off.
n. a condition in which everything has the same weight or force; something left after other parts have been taken away
57. The fire department arrived just in time to _____ the family from the burning building.
v. to save someone or something from a dangerous or difficult situation

ANSWERS: 50. dawn, 51. atmosphere, 52. traits, 53. urgency, 54. deplete, 55. crisis, 56. balance, 57. rescue

58. Computers help people _____ specific memories.
v. to keep or continue to possess or maintain something
59. His _____ showed highly positive results.
n. the scientific test conducted to observe what happens and gain new knowledge
60. He moved his body _____ to the left.
adv. in a small degree or extent; a little
61. Herbs require _____ soil in a sunny, sheltered location.
adj. capable of producing abundant vegetation or crops; intellectually productive
62. Radiation from _____ has a different wavelength.
n. the light emitted by the sun; the rays of the sun
63. She had an _____ while meditating and realized the answer to her problem.
n. a moment of sudden and great realization or revelation; a Christian festival, held on 6 January, celebrating the visit of the three wise men to the infant Jesus
64. The brain is an incredibly complex organ that controls the body's _____.
n. the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
65. The _____ emissions from the nearby factory caused the rotten egg smell.
n. (also sulphur) a chemical element with the symbol S and atomic number 16, found in many minerals and sulfur compounds, often used in the production of fertilizers, rubber, paper, and other industrial applications

ANSWERS: 58. retain, 59. experiments, 60. slightly, 61. fertile, 62. sunlight, 63. epiphany, 64. function, 65. sulfur

66. We would _____ an early reply.

- v. to value and acknowledge the worth of someone or something; to be grateful for something or someone

67. I need to _____ this document before submitting it to my boss.

- v. to prepare written material for publication by correcting, condensing, or otherwise modifying it

68. I want to _____ a toast in honor of our longstanding relationship.

- v. to make a proposal, declare a plan for something

69. _____ and weather have an impact on every part of our lifestyles.

- n. the weather in a particular location averaged over some long period

70. The general _____ the troops more strategically.

- v. to share something among people in a different way

71. He has _____ his wealth through real estate investments.

- v. to collect or acquire a large number of things over a long period of time

72. 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

73. The robust economy of the country is based on its _____ resources.

- n. a solid inorganic substance occurring in nature having a definite chemical composition

74. Reading not only increases knowledge but also _____ life.

- v. to make better or improve in quality by adding something else

ANSWERS: 66. appreciate, 67. edit, 68. propose, 69. Climate, 70. redistributed, 71. accumulated, 72. planet, 73. mineral, 74. enriches

75. The _____ exercised great care in landing.

- n.* a person who flies an aircraft, especially as a job; a person qualified to guide ships through a difficult area of water

76. 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

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

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

78. After his death, his sons _____ his business.

- v.* to receive money, property, or a title from someone after they have died

79. The raising of interest rates _____ the inflation rate.

- v.* to become or cause to become steady or unlikely to give way

80. In junior high school, we had to dissect a frog in _____ class.

- n.* the scientific study of life and the natural processes of living things

81. She was proud to receive a _____ for her hard work and dedication to the sport.

- n.* a flat, usually circular piece of metal or other material that is often given as an award or commemoration for an achievement, victory, or honor

82. We all should learn how to _____ stress.

- v.* to deal with a situation, problem, or strong emotion

83. The development team reported two _____ increases in performance.

- adj.* a hundred times as great or as much

ANSWERS: 75. pilot, 76. molecule, 77. stable, 78. inherited, 79. stabilizes, 80. biology, 81. medal, 82. handle, 83. hundredfold

84. Mozart was a musical _____.

n. someone who has exceptional intellectual ability and originality

85. 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

86. Human conservation efforts often fail unexpectedly because they disturb the balance of the _____.

n. all the plants and living creatures in an area and the way they affect each other and the environment

87. He received the title of the best _____ in all our branches worldwide.

n. a person whose job is to sell goods in a shop or directly to customers

88. Hydrogen and oxygen _____ to form water.

v. to join or merge to form a single thing or group

89. The wallpaper had a pattern of pink _____ on a white surface.

n. a very small circular mark, especially one that is printed

90. Trees absorb _____ dioxide and give off oxygen.

n. a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals

91. His _____ to the charity was a generous donation of money.

n. the act of giving something, especially money, to a particular cause or organization; a voluntary gift as of money or service or ideas made to some worthwhile cause

ANSWERS: 84. genius, 85. complicated, 86. ecosystem, 87. salesperson, 88. combine, 89. dots, 90. carbon, 91. contribution

92. Mitochondria exist in every _____ cell.

n. organisms whose cell nuclei are surrounded by a nuclear envelope

ANSWERS: 92. eukaryotic