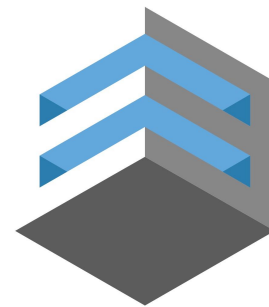


Englist.me



Vocabulary Builder Reference from...

Laurence Hurst: Is human evolution speeding up or slowing down? | TED Talk

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

All Words

IMPORTANT

This material is a commentary and does not contain any copyrighted material of the reference source. We strongly recommend accessing/buying the reference source at the same time.

Session 1: Word List

plateau

- n.* an elevated, relatively level expanse of land, typically vast and extending over a large area; a state or period of little or no change following a period of growth, development, or progress

synonym: mesa, tableland, plain

- (1) **plateau** region, (2) **plateau** in performance

The hikers finally reached the **plateau** after a long climb up the mountain.

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.

settler

- n.* a person who moved with a group of others to live in a different country or area

synonym: frontiersperson, immigrant, emigrant

- (1) new **settlers**, (2) **settlers** on some foreign shore

A large proportion of railway workers in **settler** colonies were white.

struggle

v. to make a great effort to do something when it is difficult, or there are a lot of problems; to use force or violence to break away from restraint or constriction

synonym: toil, strive, compete

(1) **struggle** against discrimination, (2) **struggle** to get the job

He could not **struggle** against temptation.

altitude

n. the height of an object or point in relation to sea level or ground level

synonym: height, elevation, tallness

(1) the meridian **altitude**, (2) low **altitude**

The plane flew at a high **altitude** to avoid turbulence.

native

adj. connecting with or describing someone's birth country or place of birth, or someone born in a specific country or place

synonym: endemic, domestic, aboriginal

(1) **native** to Africa, (2) **native** language

The vegetation here is almost wholly **native**.

sprint

v. to run at full speed over a short distance or period of time

synonym: dash, bolt, race

(1) **sprint** for a bus, (2) **sprint** towards the finish line

Top athletes can **sprint** 100 meters in less than 10 seconds.

apparent

adj. able to see or understand easily or clearly

synonym: obvious, clear, conspicuous

(1) heir **apparent**, (2) **apparent** contradiction

This star is **apparent** to the naked eye.

survive

v. to live or exist despite a dangerous event or period

synonym: endure, persist, stay

(1) **survive** a blizzard, (2) **survive** a plane crash

These birds can only **survive** in temperate climates.

environment

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

synonym: atmosphere, surroundings, climate

(1) **environment** affairs, (2) chaotic **environment**

Every human is responsible for taking care of the Earth's **environment**.

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.

estimate

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

synonym: calculate, gauge, evaluate

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

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

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.

ongoing

adj. continuing to exist or develop, or currently happening

synonym: continuous, current, proceeding

(1) still **ongoing**, (2) **ongoing** support

The new prime minister has vowed to take measures against the **ongoing** economic crisis.

adaptation

n. the action or process of changing to suit different conditions

synonym: adaption, adjustment, transformation

(1) **adaptation** ability, (2) language **adaptation**

The company's **adaptation** approach has been highly effective.

evolution

n. a gradual process of transformation of living things

synonym: elaboration, expansion, transition

(1) human **evolution**, (2) **evolution** theory

They study the **evolution** of the universe.

technological

adj. based on scientific and industrial progress

synonym: specialized, technical

(1) **technological** advancement, (2) **technological** policy

Technological advances have disrupted many industries.

innovation

n. the creation of a new device or process resulting from study and experimentation

synonym: invention, initiation, creation

(1) **innovation** leader, (2) cutting-edge **innovation**

The vegetarian burger was an **innovation** that quickly spread to the United Kingdom.

arctic

adj. of or relating to the region around the North Pole or the Arctic Ocean; very cold

synonym: cold, frozen, polar

(1) **arctic** ice, (2) high **arctic**

Cold temperatures and long, dark winters characterize the **arctic** climate.

adapt

v. to make fit for or change to suit a new purpose or environment

synonym: adjust, acclimate, accustom

(1) **adapt** fully to the environment, (2) **adapt** as needed

I advised him to **adapt** to his new surroundings.

extreme

adj. very great in amount or degree

synonym: farthestmost, outermost, fierce

(1) **extreme** sports, (2) **extreme** weather events

Solar gravity creates **extreme** pressures and temperatures.

develop

v. to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created

synonym: evolve, progress, advance

(1) **develop** a strategy, (2) **develop** a skill

We must **develop** a new system to streamline our workflow and increase efficiency.

frostbite

n. a medical condition that occurs when the skin and underlying tissue freeze due to exposure to extremely cold temperatures, resulting in damage or loss of tissue and, in severe cases, amputation

synonym: cryopathy, chilblains, ice burn

(1) **frostbite** symptoms, (2) **frostbite** on the hand

The athlete had to quit the race due to severe **frostbite** on his feet.

sub-zero

adj. indicating a temperature that is below freezing point; extremely cold, or frigid

synonym: freezing, frigid, icy

(1) **sub-zero** climate, (2) **sub-zero** freezer

The **sub-zero** temperatures during the winter can be dangerous for those not properly dressed.

temperature

n. the degree of hotness or coldness of a thing or place

synonym: climate, warmth, degree

(1) extreme **temperatures**, (2) the atmospheric **temperature**

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

undergo

v. to go through something unpleasant or that involves a change

synonym: experience, suffer, endure

(1) **undergo** surgery, (2) **undergo** a decrease

The train has to **undergo** rigorous safety checks.

metabolism

n. the set of chemical reactions in cells or organisms that are necessary for life-sustaining

(1) **metabolism** enzyme, (2) hemoglobin **metabolism**

Better sleep leads to increased **metabolism**.

dive

v. to jump into the water with your head and arms going in first, or to move down to a deeper level underwater

synonym: dip, leap, plunge

(1) **dive** into anime communities, (2) **dive** off a cliff

The sperm whale can **dive** to 1,000 meters.

underwater

adv. below or under the surface of the water

synonym: submerged, undersea, submarine

(1) hold my breath **underwater**, (2) seals sleep **underwater**

He is good at swimming **underwater**.

nomadic

adj. moving from one location to another rather than staying in one place all of the time

synonym: mobile, migratory, wandering

(1) **nomadic** life, (2) **nomadic** herdsmen

This dessert is the territory of **nomadic** tribes.

hunt

v. to go after and try to catch wild animals to kill them for food, sport, or profit

synonym: chase, pursuit, quest

(1) **hunt** a job, (2) **hunt** after knowledge

Hounds **hunt** their prey by using their keen scent.

genetically

adv. in a way that relates to or is produced by genes (= the units in the cells of a living thing received by an animal or plant from its parents) or heredity

synonym: hereditary, inherited, family-related

(1) **genetically** inherited traits, (2) **genetically** manipulated plant

The **genetically** modified crops were resistant to pests and required less water.

hardwired

adj. built-in or innate, often referring to behavior or traits that are instinctive or automatic, as if pre-programmed in the brain or genetics

synonym: innate, ingrained, automatic

(1) **hardwired** behavior, (2) **hardwired** connection

The instinct to protect one's offspring is **hardwired** into many animal species.

unusually

adv. in a way that is not typical or expected

synonym: exceptionally, remarkably, outstandingly

(1) **unusually** cheerful, (2) look **unusually** serious

The team's performance has been **unusually** poor this season.

spleen

n. a large, blood-rich organ located in the upper left region of the abdomen, known for its role in the immune system, blood storage, and blood filtration

synonym: lien, irascibility, temper

(1) **spleen** function, (2) enlarged **spleen**

The doctor explained that the pain in her abdomen was caused by **spleen** inflammation.

seal

v. to close or fasten an envelope, etc. securely; (noun) a large marine mammal that chiefly lives in cold regions and comes on shore to breed

synonym: enclose, shut, close

(1) **seal** a hole, (2) a fur **seal**

He **sealed** the letter with hot wax.

pedestrian

n. a person who is in the street, especially in an area where vehicles go

synonym: walker, footer

(1) **pedestrian** accident, (2) **pedestrian** safety

A **pedestrian** is an uncommon sight in this area.

comparison

n. the consideration or examination of the similarities between two or more people or things

synonym: equivalence, analogy, contrast

(1) ease of **comparison**, (2) **comparison** of foods on a caloric basis

I've included the two designs for a **comparison**.

mammal

n. any animal of which the female gives birth to live young, not eggs, and feeds her young on milk from her own body

(1) a primitive **mammal**, (2) a sort of **mammal**

Marine **mammal** populations are declining worldwide due to ocean pollution.

wean

v. to gradually stop feeding a baby or young animal with its mother's milk and to start or accustom to eating other food

synonym: ablactate

(1) **wean** a person from a bad habit, (2) **wean** my baby from the breast

It's difficult to **wean** an addict off drugs once they're hooked.

digest

v. to transform food into absorbable substances; break down

synonym: absorb, condense

(1) **digest** information, (2) help **digest** food

Most babies can readily **digest** a wide variety of foods.

communal

adj. belonging to or used by a group rather than individuals; for common use

synonym: collaborative, combined, collective

(1) **communal** swimming pool, (2) **communal** combination of funds

Communal elections were held in several European countries.

sub-Saharan

adj. of or relating to or situated in the area south of the Sahara Desert

(1) **sub-Saharan** Africa, (2) **sub-Saharan** countries

The coffee producers in **sub-Saharan** countries are at the sharp end of fluctuations in price.

cow

n. a domesticated mammal with characteristic features such as a hump, large udders, and curved horns that is raised for its milk or meat

synonym: bovine, cattle, kine

(1) **cow** herd, (2) dairy **cow**

The farmer milked the **cows** every morning before breakfast.

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.

calcium

n. a chemical element with the symbol Ca and atomic number 20, which is an important mineral for the human body

synonym: Ca, lime, chalk

(1) **calcium** deficiency, (2) ion of **calcium**

The patient was prescribed a **calcium** supplement to help prevent osteoporosis.

aid

n. things sent to help countries in need, notably food or money; support

synonym: helper, resource, assistance

(1) financial **aid**, (2) country-by-country **aid** programs

Pakistan's **aid** budget was still being reviewed.

vitamin

n. any of a group of organic compounds that are essential in small quantities to the diet and are present in natural foodstuffs or sometimes produced within the body

synonym: nutrient, micronutrient, dietary supplement

(1) rich in **vitamin** D, (2) **vitamin** deficiency

Vitamin C is important for immune system function and skin health.

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.

obvious

adj. easy to see, discover or understand

synonym: apparent, conspicuous, evident

(1) **obvious** reasons, (2) his conclusion was **obvious**

There are **obvious** differences between the two wine-producing regions.

improve

v. to make or become better

synonym: enhance, ameliorate, enrich

(1) **improve** a process, (2) **improve** the test score

We want to **improve** ties between our two countries.

reproductive

adj. connected with the process of reproduction; relating to reproducing babies, young animals, or plants

synonym: procreative, generative

(1) **reproductive** ability, (2) during **reproductive** period

This documentary deals with the **reproductive** biology of the buffalo.

evolutionary

adj. relating to or denoting how living things develop or change from earlier forms

synonym: developmental, mutative, transformative

(1) ecology and **evolutionary** biology, (2) the **evolutionary** process

Evolutionary algorithms can find ways to optimize that humans do not anticipate.

modern

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.

medicinal

adj. of or relating to the treatment or cure of disease

synonym: curative, therapeutic, healing

(1) **medicinal** chemistry, (2) traditional **medicinal**

The **medicinal** properties of this herb have been known to help with various ailments.

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.

infectious

adj. able to be passed quickly from one person, animal, or plant to another, especially through air or water

synonym: contagious, epidemic, transmittable

(1) an **infectious** fever, (2) person's smile is **infectious**

Leprosy is an indolent **infectious** disease.

disease

n. a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems

synonym: illness, ailment, affliction

(1) **disease** prevention, (2) **disease** control

The doctor diagnosed him with a rare **disease** that had no known cure.

antibiotic

n. a substance or drug that kills or slows down the growth of bacteria

synonym:

antimicrobial, chemotherapeutic, germicide

(1) **antibiotic** resistance, (2) **antibiotic** allergy

He has been prescribed an **antibiotic** to treat his infection.

vaccine

n. a substance that is put into the body and protects them from disease by causing them to produce antibodies (= proteins that attack harmful bacteria, viruses, etc.)

synonym: vaccinum

(1) development of **vaccines**, (2) an oral **vaccine**

The mRNA **vaccine** was approved in less than a year because it did not contain the fragments of the target virus.

sanitation

n. the process of maintaining a clean and hygienic environment, particularly in public health and safety contexts; the practice of disposing of waste products in a safe and appropriate manner

synonym: cleanliness, hygiene, sterilization

(1) **sanitation** standards, (2) poor **sanitation**

Sanitation workers play a critical role in keeping our cities clean and healthy.

similarly

adv. in almost the same way

synonym: also, likewise, ditto

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

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

cancer

n. abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells

synonym: tumor, carcinoma, malignancy

(1) **cancer** diagnosis, (2) **cancer** research

Breast **cancer** is the most common type of cancer in women.

surgery

n. medical treatment of injuries or diseases involving an incision with instruments and often removing or replacing some parts of the body; the branch of medical

science that treats disease or injury by operative procedures

synonym: operation, (medical) procedure

(1) cardiac **surgery**, (2) the professor of **surgery**

He had undergone heart **surgery** years before.

extract

n. a short passage taken from a book, piece of music, etc.; a substance obtained from something through a specific process; (verb) to obtain from something or to remove something by effort or force

synonym: excerpt, quote, distillation

(1) a brief **extract** from the book, (2) botanical **extract**

Anesthetize the gum before **extracting** the teeth.

inflamm

v. to cause very strong feelings such as anger or excitement in a person or a group of people

synonym: agitate, arouse, enrage

(1) **inflamm** skin, (2) **inflamm** his passion

Her eyes **inflamed** with crying.

appendix

n. a small, tube-shaped organ attached to the large intestine in humans and some animals, which is believed to play a role in the immune system and digestion; supplementary material that is collected and appended at the back of a book

synonym: addendum, adjunct, supplement

(1) **appendix** cancer, (2) book **appendix**

The doctor reviewed the patient's medical records to see if they had previously had their **appendix** removed.

threaten

v. to utter intentions of injury or punishment against someone

synonym: endanger, terrorize, intimidate

(1) **threaten** a healthy relationship, (2) **threaten** national security

Various artificially induced causes are **threatening** our ecosystem.

pregnant

adj. having a baby or young animal developing in the uterus

synonym: expectant

(1) needs of **pregnant** women, (2) a silence **pregnant** with suspense

She vacated the position when she got **pregnant**.

specific

adj. clearly defined or particular to a certain thing or situation; distinct, explicit, and precise

synonym: particular, definite, distinct

(1) **specific** instructions, (2) industry- **specific** regulations

The scientist conducted a study that provided **specific** details about the species' behavior.

aspect

n. one part or feature of a situation, problem, subject, etc.

synonym: characteristic, element, factor

(1) nontechnical **aspects** of the job, (2) **aspects** of social, political, and economic life

His professional experience includes all **aspects** of media production.

variation

n. the act or state of changing; a difference or change in the way something is done, made or said

synonym: fluctuation, change, variation

(1) **variation** of temperature, (2) gene **variation**

There is a lot of **variation** in the colors of flowers in the garden.

drift

v. to move smoothly and slowly in water or air, especially as a result of outside forces, with no control over the direction

synonym: float, wander, freewheel

(1) **drift** down the stream, (2) **drift** away on a raft

I **drifted** around for years in Europe before going to university.

vary

v. to become different in terms of size, shape, etc.

synonym: alter, contrast, differ

(1) **vary** according to the age, (2) **vary** directly with the price
Maximum heart rates **vary** a lot for each individual.

random

adj. made, done, or happening without method, conscious decision, or any regular pattern

synonym: incidental, arbitrary, unanticipated

(1) a **random** choice, (2) bombs fell at **random**
To find drunk drivers, police conduct **random** tests.

mutation

n. the way in which genes of a person, plant, animal, or other organism change and produce permanent differences

synonym: metamorphosis, transformation, alteration

(1) **mutation** of DNA, (2) hereditary **mutation**
Radiation often promotes genetic **mutations** in plants and animals.

eliminate

v. to remove or get rid of someone or something

synonym: wipe out, destroy, eradicate

(1) **eliminate** contestants, (2) **eliminate** sexual barriers
We can **eliminate** this possibility from those consumptions.

necessarily

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

synonym: inevitable, certainly, automatically

(1) not **necessarily** a problem, (2) **necessarily** true
This accident was something that happened **necessarily**.

translate

v. to convert or change words into another language

synonym: convert, transcribe, render

(1) **translate** a document into English, (2) **translate** the emotion to a movement

Translate the text from Italian into English.

observable

adj. that can be noticed or seen

synonym: visible, perceptible, detectable

(1) **observable** change, (2) experimentally **observable**

Any theorem relies on both **observable** fact and assumption.

phenotype

n. the observable physical or biochemical characteristics of an individual organism that result from the interaction between its genetic makeup and the environment in which it lives

synonym: trait, characteristic, attribute

(1) **phenotype** variation, (2) dominant **phenotype**

Our genetic **phenotype** determines the color of our eyes.

investigate

v. to conduct a systematic or formal inquiry to identify and evaluate the facts of a crime, problem, statement, etc. to establish the truth

synonym: examine, analyze, look into

(1) **investigate** the matter, (2) **investigate** a data leak

The committee **investigated** several apparent inconsistencies.

epigenetic

adj. relating to changes in gene expression that are not caused by alterations in the underlying DNA sequence but rather by modifications to the structure of DNA or proteins that regulate gene activity

synonym: environmental, hereditary, inherited

(1) **epigenetic** inheritance, (2) **epigenetic** markers

Epigenetic research has opened up new possibilities for the treatment of certain diseases.

modification

n. the act of changing something, usually to improve it, or something changed

synonym: change, amendment, alteration

(1) a **modification** of last year's model, (2) further **modification**

As a result of this **modification**, we have revised our safety measures.

lifetime

n. the duration of someone's life or something's existence;
synonym: lifespan, duration

(1) **lifetime** benefits, (2) **lifetime** ban from the sport
She had lived through two world wars in her **lifetime**.

offspring

n. descendant; any immature animal or plant
synonym: children, descendants, heirs

(1) female **offspring**, (2) produce **offspring**
How many **offspring** does the average lion have?

conflict

n. a strong disagreement, argument, or a violent clash
between two opposing groups or individuals
synonym: clash, discord, competition

(1) the **conflict** between good and evil, (2) the longstanding
conflict
He and I often had **conflicts**, not only in personality but also
in ideology.

persist

v. to continue to do and refuse to stop something despite
difficulties or opposition, even if it appears unreasonable
synonym: endure, continue, carry on

(1) **persist** over time, (2) **persist** in success
Consult your doctor if the symptoms **persist**.

contributor

n. a person or thing that adds to the achievement,
production, or growth of something (such as a project,
organization, or publication); a donor or benefactor
synonym: donor, giver, subscriber

(1) **contributor** of funds, (2) regular **contributor**
She is a major **contributor** to the local food bank,
volunteering every week.

Session 2: Spelling

- | | |
|---------------------------------------|--|
| 1. industry-sp____ic regulations | <i>adj.</i> clearly defined or particular to a certain thing or situation; distinct, explicit, and precise |
| 2. botanical ex____t | <i>n.</i> a short passage taken from a book, piece of music, etc.; a substance obtained from something through a specific process; (verb) to obtain from something or to remove something by effort or force |
| 3. pe____t over time | <i>v.</i> to continue to do and refuse to stop something despite difficulties or opposition, even if it appears unreasonable |
| 4. his conclusion was ob____s | <i>adj.</i> easy to see, discover or understand |
| 5. the professor of su____y | <i>n.</i> medical treatment of injuries or diseases involving an incision with instruments and often removing or replacing some parts of the body; the branch of medical science that treats disease or injury by operative procedures |
| 6. dr__t away on a raft | <i>v.</i> to move smoothly and slowly in water or air, especially as a result of outside forces, with no control over the direction |
| 7. tr____te the emotion to a movement | <i>v.</i> to convert or change words into another language |

ANSWERS: 1. specific, 2. extract, 3. persist, 4. obvious, 5. surgery, 6. drift, 7. translate

- | | |
|--|--|
| 8. female of_____ng | <i>n.</i> descendant; any immature animal or plant |
| 9. epi_____ic inheritance | <i>adj.</i> relating to changes in gene expression that are not caused by alterations in the underlying DNA sequence but rather by modifications to the structure of DNA or proteins that regulate gene activity |
| 10. ob_____s reasons | <i>adj.</i> easy to see, discover or understand |
| 11. traditional me_____al | <i>adj.</i> of or relating to the treatment or cure of disease |
| 12. com_____on of foods on a caloric basis | <i>n.</i> the consideration or examination of the similarities between two or more people or things |
| 13. vi_____n deficiency | <i>n.</i> any of a group of organic compounds that are essential in small quantities to the diet and are present in natural foodstuffs or sometimes produced within the body |
| 14. tr_____te a document into English | <i>v.</i> to convert or change words into another language |
| 15. fr_____te symptoms | <i>n.</i> a medical condition that occurs when the skin and underlying tissue freeze due to exposure to extremely cold temperatures, resulting in damage or loss of tissue and, in severe cases, amputation |
| 16. c_w herd | <i>n.</i> a domesticated mammal with characteristic features such as a hump, large udders, and curved horns that is raised for its milk or meat |

ANSWERS: 8. offspring, 9. epigenetic, 10. obvious, 11. medicinal, 12. comparison, 13. vitamin, 14. translate, 15. frostbite, 16. cow

- | | |
|---|--|
| 17. ha_____ed behavior | <i>adj.</i> built-in or innate, often referring to behavior or traits that are instinctive or automatic, as if pre-programmed in the brain or genetics |
| 18. enlarged sp____n | <i>n.</i> a large, blood-rich organ located in the upper left region of the abdomen, known for its role in the immune system, blood storage, and blood filtration |
| 19. a brief ex_____t from the book | <i>n.</i> a short passage taken from a book, piece of music, etc.; a substance obtained from something through a specific process; (verb) to obtain from something or to remove something by effort or force |
| 20. su_____e a blizzard | <i>v.</i> to live or exist despite a dangerous event or period |
| 21. h__t after knowledge | <i>v.</i> to go after and try to catch wild animals to kill them for food, sport, or profit |
| 22. env_____nt affairs | <i>n.</i> the natural world such as air, water, and land in which humans, animals, and plants live |
| 23. the co_____ct between good and evil | <i>n.</i> a strong disagreement, argument, or a violent clash between two opposing groups or individuals |
| 24. ant_____ic allergy | <i>n.</i> a substance or drug that kills or slows down the growth of bacteria |
| 25. th_____en national security | <i>v.</i> to utter intentions of injury or punishment against someone |

ANSWERS: 17. hardwired, 18. spleen, 19. extract, 20. survive, 21. hunt, 22. environment, 23. conflict, 24. antibiotic, 25. threaten

- | | |
|---------------------------------|---|
| 26. co_____e augmented reality | <i>v.</i> to join or merge to form a single thing or group |
| 27. regular con_____or | <i>n.</i> a person or thing that adds to the achievement, production, or growth of something (such as a project, organization, or publication); a donor or benefactor |
| 28. el_____te contestants | <i>v.</i> to remove or get rid of someone or something |
| 29. mu_____on of DNA | <i>n.</i> the way in which genes of a person, plant, animal, or other organism change and produce permanent differences |
| 30. gen_____ly inherited traits | <i>adv.</i> in a way that relates to or is produced by genes (= the units in the cells of a living thing received by an animal or plant from its parents) or heredity |
| 31. a va_____t of the same word | <i>n.</i> something that is slightly different from others of the same type |
| 32. su_____ro climate | <i>adj.</i> indicating a temperature that is below freezing point; extremely cold, or frigid |
| 33. v__y according to the age | <i>v.</i> to become different in terms of size, shape, etc. |
| 34. on_____g support | <i>adj.</i> continuing to exist or develop, or currently happening |
| 35. no_____c herdsmen | <i>adj.</i> moving from one location to another rather than staying in one place all of the time |
| 36. un_____o surgery | <i>v.</i> to go through something unpleasant or that involves a change |

ANSWERS: 26. combine, 27. contributor, 28. eliminate, 29. mutation, 30. genetically, 31. variant, 32. sub-zero, 33. vary, 34. ongoing, 35. nomadic, 36. undergo

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|---|---|
| 37. financial a_d | <i>n.</i> things sent to help countries in need, notably food or money; support |
| 38. ion of ca____m | <i>n.</i> a chemical element with the symbol Ca and atomic number 20, which is an important mineral for the human body |
| 39. pre-mo___n agricultural society | <i>adj.</i> of or belonging to the present time or recent times |
| 40. no____c life | <i>adj.</i> moving from one location to another rather than staying in one place all of the time |
| 41. co____e chemically with another substance | <i>v.</i> to join or merge to form a single thing or group |
| 42. fr_____te on the hand | <i>n.</i> a medical condition that occurs when the skin and underlying tissue freeze due to exposure to extremely cold temperatures, resulting in damage or loss of tissue and, in severe cases, amputation |
| 43. look un_____ly serious | <i>adv.</i> in a way that is not typical or expected |
| 44. me_____al chemistry | <i>adj.</i> of or relating to the treatment or cure of disease |
| 45. sub_____an countries | <i>adj.</i> of or relating to or situated in the area south of the Sahara Desert |
| 46. the atmospheric tem_____re | <i>n.</i> the degree of hotness or coldness of a thing or place |
| 47. ca___r research | <i>n.</i> abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells |

ANSWERS: 37. aid, 38. calcium, 39. modern, 40. nomadic, 41. combine, 42. frostbite, 43. unusually, 44. medicinal, 45. sub-Saharan, 46. temperature, 47. cancer

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| 48. sub_____an Africa | <i>adj.</i> of or relating to or situated in the area south of the Sahara Desert |
| 49. dr__t down the stream | <i>v.</i> to move smoothly and slowly in water or air, especially as a result of outside forces, with no control over the direction |
| 50. heir ap_____nt | <i>adj.</i> able to see or understand easily or clearly |
| 51. development of va_____es | <i>n.</i> a substance that is put into the body and protects them from disease by causing them to produce antibodies (= proteins that attack harmful bacteria, viruses, etc.) |
| 52. cutting-edge inn_____on | <i>n.</i> the creation of a new device or process resulting from study and experimentation |
| 53. ecology and evo_____ary biology | <i>adj.</i> relating to or denoting how living things develop or change from earlier forms |
| 54. sp____t for a bus | <i>v.</i> to run at full speed over a short distance or period of time |
| 55. ph_____pe variation | <i>n.</i> the observable physical or biochemical characteristics of an individual organism that result from the interaction between its genetic makeup and the environment in which it lives |
| 56. pl_____u region | <i>n.</i> an elevated, relatively level expanse of land, typically vast and extending over a large area; a state or period of little or no change following a period of growth, development, or progress |

ANSWERS: 48. sub-Saharan, 49. drift, 50. apparent, 51. vaccine, 52. innovation, 53. evolutionary, 54. sprint, 55. phenotype, 56. plateau

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| 57. epi_____ic markers | <i>adj.</i> relating to changes in gene expression that are not caused by alterations in the underlying DNA sequence but rather by modifications to the structure of DNA or proteins that regulate gene activity |
| 58. st_____le against discrimination | <i>v.</i> to make a great effort to do something when it is difficult, or there are a lot of problems; to use force or violence to break away from restraint or constriction |
| 59. book ap_____ix | <i>n.</i> a small, tube-shaped organ attached to the large intestine in humans and some animals, which is believed to play a role in the immune system and digestion; supplementary material that is collected and appended at the back of a book |
| 60. the meridian al_____de | <i>n.</i> the height of an object or point in relation to sea level or ground level |
| 61. high ar_____c | <i>adj.</i> of or relating to the region around the North Pole or the Arctic Ocean; very cold |
| 62. an oral va_____e | <i>n.</i> a substance that is put into the body and protects them from disease by causing them to produce antibodies (= proteins that attack harmful bacteria, viruses, etc.) |
| 63. extreme tem_____res | <i>n.</i> the degree of hotness or coldness of a thing or place |
| 64. ca_____m deficiency | <i>n.</i> a chemical element with the symbol Ca and atomic number 20, which is an important mineral for the human body |

ANSWERS: 57. epigenetic, 58. struggle, 59. appendix, 60. altitude, 61. arctic, 62. vaccine, 63. temperature, 64. calcium

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| 65. th____en a healthy relationship | <i>v.</i> to utter intentions of injury or punishment against someone |
| 66. ca____r diagnosis | <i>n.</i> abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells |
| 67. ap____ix cancer | <i>n.</i> a small, tube-shaped organ attached to the large intestine in humans and some animals, which is believed to play a role in the immune system and digestion; supplementary material that is collected and appended at the back of a book |
| 68. es____te this chicken to weigh three pounds | <i>v.</i> to guess or calculate the cost, size, value, etc. of something |
| 69. li____me ban from the sport | <i>n.</i> the duration of someone's life or something's existence; |
| 70. co____al swimming pool | <i>adj.</i> belonging to or used by a group rather than individuals; for common use |
| 71. ease of com____on | <i>n.</i> the consideration or examination of the similarities between two or more people or things |
| 72. pe____t in success | <i>v.</i> to continue to do and refuse to stop something despite difficulties or opposition, even if it appears unreasonable |
| 73. tec____cal advancement | <i>adj.</i> based on scientific and industrial progress |
| 74. in direct su____ht | <i>n.</i> the light emitted by the sun; the rays of the sun |

ANSWERS: 65. threaten, 66. cancer, 67. appendix, 68. estimate, 69. lifetime, 70. communal, 71. comparison, 72. persist, 73. technological, 74. sunlight

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| 75. im_____e a process | <i>v.</i> to make or become better |
| 76. inv_____te the matter | <i>v.</i> to conduct a systematic or formal inquiry to identify and evaluate the facts of a crime, problem, statement, etc. to establish the truth |
| 77. hereditary mu_____on | <i>n.</i> the way in which genes of a person, plant, animal, or other organism change and produce permanent differences |
| 78. during rep_____ive period | <i>adj.</i> connected with the process of reproduction; relating to reproducing babies, young animals, or plants |
| 79. dominant ph_____pe | <i>n.</i> the observable physical or biochemical characteristics of an individual organism that result from the interaction between its genetic makeup and the environment in which it lives |
| 80. hold my breath und_____er | <i>adv.</i> below or under the surface of the water |
| 81. si_____ly situated | <i>adv.</i> in almost the same way |
| 82. gen_____ly manipulated plant | <i>adv.</i> in a way that relates to or is produced by genes (= the units in the cells of a living thing received by an animal or plant from its parents) or heredity |
| 83. cardiac su_____y | <i>n.</i> medical treatment of injuries or diseases involving an incision with instruments and often removing or replacing some parts of the body; the branch of medical science that treats disease or injury by operative procedures |

ANSWERS: 75. improve, 76. investigate, 77. mutation, 78. reproductive, 79. phenotype, 80. underwater, 81. similarly, 82. genetically, 83. surgery

84. country-by-country a_d programs	<i>n.</i> things sent to help countries in need, notably food or money; support
85. help di___t food	<i>v.</i> to transform food into absorbable substances; break down
86. san_____on standards	<i>n.</i> the process of maintaining a clean and hygienic environment, particularly in public health and safety contexts; the practice of disposing of waste products in a safe and appropriate manner
87. ex_____e weather events	<i>adj.</i> very great in amount or degree
88. person's smile is inf_____us	<i>adj.</i> able to be passed quickly from one person, animal, or plant to another, especially through air or water
89. ev___e over the past decade	<i>v.</i> to develop gradually, or to cause the development of something or someone gradually
90. a ge_____c disorder	<i>adj.</i> of or relating to genes (= parts of the DNA in cells) or the science of genes
91. ped_____an accident	<i>n.</i> a person who is in the street, especially in an area where vehicles go
92. in_____e his passion	<i>v.</i> to cause very strong feelings such as anger or excitement in a person or a group of people
93. es_____te a fair value	<i>v.</i> to guess or calculate the cost, size, value, etc. of something
94. el_____te sexual barriers	<i>v.</i> to remove or get rid of someone or something
95. needs of pr_____nt women	<i>adj.</i> having a baby or young animal developing in the uterus

ANSWERS: 84. aid, 85. digest, 86. sanitation, 87. extreme, 88. infectious, 89. evolve, 90. genetic, 91. pedestrian, 92. inflame, 93. estimate, 94. eliminate, 95. pregnant

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| 96. pl____u in performance | <i>n.</i> an elevated, relatively level expanse of land, typically vast and extending over a large area; a state or period of little or no change following a period of growth, development, or progress |
| 97. mo____n poetry | <i>adj.</i> of or belonging to the present time or recent times |
| 98. have si_____ly great abilities | <i>adv.</i> in almost the same way |
| 99. sp____t towards the finish line | <i>v.</i> to run at full speed over a short distance or period of time |
| 100. rep_____ive ability | <i>adj.</i> connected with the process of reproduction; relating to reproducing babies, young animals, or plants |
| 101. poor san_____on | <i>n.</i> the process of maintaining a clean and hygienic environment, particularly in public health and safety contexts; the practice of disposing of waste products in a safe and appropriate manner |
| 102. a glare of su_____ht | <i>n.</i> the light emitted by the sun; the rays of the sun |
| 103. not nec_____ly a problem | <i>adv.</i> in an essential manner; in such a way as could not be otherwise |
| 104. met_____sm enzyme | <i>n.</i> the set of chemical reactions in cells or organisms that are necessary for life-sustaining |
| 105. lack of ox____n | <i>n.</i> 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: 96. plateau, 97. modern, 98. similarly, 99. sprint, 100. reproductive, 101. sanitation, 102. sunlight, 103. necessarily, 104. metabolism, 105. oxygen

106. va_____on of temperature	<i>n.</i> the act or state of changing; a difference or change in the way something is done, made or said
107. ha_____ed connection	<i>adj.</i> built-in or innate, often referring to behavior or traits that are instinctive or automatic, as if pre-programmed in the brain or genetics
108. ap_____nt contradiction	<i>adj.</i> able to see or understand easily or clearly
109. h__t a job	<i>v.</i> to go after and try to catch wild animals to kill them for food, sport, or profit
110. ant_____ic resistance	<i>n.</i> a substance or drug that kills or slows down the growth of bacteria
111. su_____ro freezer	<i>adj.</i> indicating a temperature that is below freezing point; extremely cold, or frigid
112. va_____t types of pigeon	<i>n.</i> something that is slightly different from others of the same type
113. w__n a person from a bad habit	<i>v.</i> to gradually stop feeding a baby or young animal with its mother's milk and to start or accustom to eating other food
114. ped_____an safety	<i>n.</i> a person who is in the street, especially in an area where vehicles go
115. ev___e	<i>v.</i> to develop gradually, or to cause the development of something or someone gradually
116. the longstanding co_____ct	<i>n.</i> a strong disagreement, argument, or a violent clash between two opposing groups or individuals
117. chaotic env_____nt	<i>n.</i> the natural world such as air, water, and land in which humans, animals, and plants live

ANSWERS: 106. variation, 107. hardwired, 108. apparent, 109. hunt, 110. antibiotic, 111. sub-zero, 112. variant, 113. wean, 114. pedestrian, 115. evolve, 116. conflict, 117. environment

118. ex____e sports	<i>adj.</i> very great in amount or degree
119. new se____rs	<i>n.</i> a person who moved with a group of others to live in a different country or area
120. as____ts of social, political, and economic life	<i>n.</i> one part or feature of a situation, problem, subject, etc.
121. d__e off a cliff	<i>v.</i> to jump into the water with your head and arms going in first, or to move down to a deeper level underwater
122. con____or of funds	<i>n.</i> a person or thing that adds to the achievement, production, or growth of something (such as a project, organization, or publication); a donor or benefactor
123. st____le to get the job	<i>v.</i> to make a great effort to do something when it is difficult, or there are a lot of problems; to use force or violence to break away from restraint or constriction
124. d__e into anime communities	<i>v.</i> to jump into the water with your head and arms going in first, or to move down to a deeper level underwater
125. ad__t as needed	<i>v.</i> to make fit for or change to suit a new purpose or environment
126. de____p a strategy	<i>v.</i> to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created

ANSWERS: 118. extreme, 119. settler, 120. aspect, 121. dive, 122. contributor, 123. struggle, 124. dive, 125. adapt, 126. develop

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|------------------------------------|---|
| 127. li____me benefits | <i>n.</i> the duration of someone's life or something's existence; |
| 128. nec_____ly true | <i>adv.</i> in an essential manner; in such a way as could not be otherwise |
| 129. a ra___m choice | <i>adj.</i> made, done, or happening without method, conscious decision, or any regular pattern |
| 130. gene va_____on | <i>n.</i> the act or state of changing; a difference or change in the way something is done, made or said |
| 131. inv_____te a data leak | <i>v.</i> to conduct a systematic or formal inquiry to identify and evaluate the facts of a crime, problem, statement, etc. to establish the truth |
| 132. the hydrogen binds the ox___n | <i>n.</i> the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live |
| 133. a fur s___l | <i>v.</i> to close or fasten an envelope, etc. securely; (noun) a large marine mammal that chiefly lives in cold regions and comes on shore to breed |
| 134. language ada_____on | <i>n.</i> the action or process of changing to suit different conditions |
| 135. sp___n function | <i>n.</i> a large, blood-rich organ located in the upper left region of the abdomen, known for its role in the immune system, blood storage, and blood filtration |

ANSWERS: 127. lifetime, 128. necessarily, 129. random, 130. variation, 131. investigate, 132. oxygen, 133. seal, 134. adaptation, 135. spleen

136. nontechnical as___ts of the job *n.* one part or feature of a situation, problem, subject, etc.
137. obs_____le change *adj.* that can be noticed or seen
138. na___e language *adj.* connecting with or describing someone's birth country or place of birth, or someone born in a specific country or place
139. rich in vi_____n D *n.* any of a group of organic compounds that are essential in small quantities to the diet and are present in natural foodstuffs or sometimes produced within the body
140. bombs fell at ra___m *adj.* made, done, or happening without method, conscious decision, or any regular pattern
141. de_____p a skill *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
142. s__l a hole *v.* to close or fasten an envelope, etc. securely; (noun) a large marine mammal that chiefly lives in cold regions and comes on shore to breed
143. produce of_____ng *n.* descendant; any immature animal or plant
144. di___t information *v.* to transform food into absorbable substances; break down

ANSWERS: 136. aspect, 137. observable, 138. native, 139. vitamin, 140. random, 141. develop, 142. seal, 143. offspring, 144. digest

145. v__y directly with the price	<i>v.</i> to become different in terms of size, shape, etc.
146. co____al combination of funds	<i>adj.</i> belonging to or used by a group rather than individuals; for common use
147. a mod_____ion of last year's model	<i>n.</i> the act of changing something, usually to improve it, or something changed
148. ada_____on ability	<i>n.</i> the action or process of changing to suit different conditions
149. tec_____cal policy	<i>adj.</i> based on scientific and industrial progress
150. se_____rs on some foreign shore	<i>n.</i> a person who moved with a group of others to live in a different country or area
151. the evo_____ary process	<i>adj.</i> relating to or denoting how living things develop or change from earlier forms
152. have ge_____c testing	<i>adj.</i> of or relating to genes (= parts of the DNA in cells) or the science of genes
153. ad__t fully to the environment	<i>v.</i> to make fit for or change to suit a new purpose or environment
154. hemoglobin met_____sm	<i>n.</i> the set of chemical reactions in cells or organisms that are necessary for life-sustaining
155. a sort of ma____l	<i>n.</i> any animal of which the female gives birth to live young, not eggs, and feeds her young on milk from her own body
156. ar____c ice	<i>adj.</i> of or relating to the region around the North Pole or the Arctic Ocean; very cold

ANSWERS: 145. vary, 146. communal, 147. modification, 148. adaptation, 149. technological, 150. settler, 151. evolutionary, 152. genetic, 153. adapt, 154. metabolism, 155. mammal, 156. arctic

157. still on____g	<i>adj.</i> continuing to exist or develop, or currently happening
158. ev_____on theory	<i>n.</i> a gradual process of transformation of living things
159. w__n my baby from the breast	<i>v.</i> to gradually stop feeding a baby or young animal with its mother's milk and to start or accustom to eating other food
160. experimentally obs_____le	<i>adj.</i> that can be noticed or seen
161. seals sleep und_____er	<i>adv.</i> below or under the surface of the water
162. an inf_____us fever	<i>adj.</i> able to be passed quickly from one person, animal, or plant to another, especially through air or water
163. a silence pr_____nt with suspense	<i>adj.</i> having a baby or young animal developing in the uterus
164. inn_____on leader	<i>n.</i> the creation of a new device or process resulting from study and experimentation
165. sp_____ic instructions	<i>adj.</i> clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
166. na___e to Africa	<i>adj.</i> connecting with or describing someone's birth country or place of birth, or someone born in a specific country or place
167. su_____e a plane crash	<i>v.</i> to live or exist despite a dangerous event or period
168. in_____e skin	<i>v.</i> to cause very strong feelings such as anger or excitement in a person or a group of people

ANSWERS: 157. ongoing, 158. evolution, 159. wean, 160. observable, 161. underwater, 162. infectious, 163. pregnant, 164. innovation, 165. specific, 166. native, 167. survive, 168. inflame

169. human ev_____on	<i>n.</i> a gradual process of transformation of living things
170. a primitive ma___l	<i>n.</i> any animal of which the female gives birth to live young, not eggs, and feeds her young on milk from her own body
171. im_____e the test score	<i>v.</i> to make or become better
172. dairy c_w	<i>n.</i> a domesticated mammal with characteristic features such as a hump, large udders, and curved horns that is raised for its milk or meat
173. un_____ly cheerful	<i>adv.</i> in a way that is not typical or expected
174. di_____e prevention	<i>n.</i> a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems
175. low al_____de	<i>n.</i> the height of an object or point in relation to sea level or ground level
176. di_____e control	<i>n.</i> a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems
177. un_____o a decrease	<i>v.</i> to go through something unpleasant or that involves a change
178. further mod_____ion	<i>n.</i> the act of changing something, usually to improve it, or something changed

ANSWERS: 169. evolution, 170. mammal, 171. improve, 172. cow, 173. unusually, 174. disease, 175. altitude, 176. disease, 177. undergo, 178. modification

Session 3: Fill in the Blanks

1. I've included the two designs for a _____.
n. the consideration or examination of the similarities between two or more people or things
2. He is good at swimming _____.
adv. below or under the surface of the water
3. Top athletes can _____ 100 meters in less than 10 seconds.
v. to run at full speed over a short distance or period of time
4. The team's performance has been _____ poor this season.
adv. in a way that is not typical or expected
5. The plane flew at a high _____ to avoid turbulence.
n. the height of an object or point in relation to sea level or ground level
6. I _____ around for years in Europe before going to university.
v. to move smoothly and slowly in water or air, especially as a result of outside forces, with no control over the direction
7. _____ C is important for immune system function and skin health.
n. any of a group of organic compounds that are essential in small quantities to the diet and are present in natural foodstuffs or sometimes produced within the body
8. _____ workers play a critical role in keeping our cities clean and healthy.
n. the process of maintaining a clean and hygienic environment, particularly in public health and safety contexts; the practice of disposing of waste products in a safe and appropriate manner

ANSWERS: 1. comparison, 2. underwater, 3. sprint, 4. unusually, 5. altitude, 6. drifted, 7. Vitamin, 8. Sanitation

9. Consult your doctor if the symptoms _____.
v. to continue to do and refuse to stop something despite difficulties or opposition, even if it appears unreasonable
10. A large proportion of railway workers in _____ colonies were white.
n. a person who moved with a group of others to live in a different country or area
11. The first _____ of the virus appeared in less than a month.
n. something that is slightly different from others of the same type
12. This dessert is the territory of _____ tribes.
adj. moving from one location to another rather than staying in one place all of the time
13. Solar gravity creates _____ pressures and temperatures.
adj. very great in amount or degree
14. The company's _____ approach has been highly effective.
n. the action or process of changing to suit different conditions
15. Maximum heart rates _____ a lot for each individual.
v. to become different in terms of size, shape, etc.
16. His professional experience includes all _____ of media production.
n. one part or feature of a situation, problem, subject, etc.
17. The sperm whale can _____ to 1,000 meters.
v. to jump into the water with your head and arms going in first, or to move down to a deeper level underwater

ANSWERS: 9. persist, 10. settler, 11. variant, 12. nomadic, 13. extreme, 14. adaptation, 15. vary, 16. aspects, 17. dive

18. The athlete had to quit the race due to severe _____ on his feet.
n. a medical condition that occurs when the skin and underlying tissue freeze due to exposure to extremely cold temperatures, resulting in damage or loss of tissue and, in severe cases, amputation
19. Hounds _____ their prey by using their keen scent.
v. to go after and try to catch wild animals to kill them for food, sport, or profit
20. The train has to _____ rigorous safety checks.
v. to go through something unpleasant or that involves a change
21. _____ algorithms can find ways to optimize that humans do not anticipate.
adj. relating to or denoting how living things develop or change from earlier forms
22. Every human is responsible for taking care of the Earth's _____.
n. the natural world such as air, water, and land in which humans, animals, and plants live
23. There are _____ differences between the two wine-producing regions.
adj. easy to see, discover or understand
24. This accident was something that happened _____.
adv. in an essential manner; in such a way as could not be otherwise
25. He had undergone heart _____ years before.
n. medical treatment of injuries or diseases involving an incision with instruments and often removing or replacing some parts of the body; the branch of medical science that treats disease or injury by operative procedures

ANSWERS: 18. frostbite, 19. hunt, 20. undergo, 21. Evolutionary, 22. environment, 23. obvious, 24. necessarily, 25. surgery

26. The doctor explained that the pain in her abdomen was caused by _____ inflammation.

- n.* a large, blood-rich organ located in the upper left region of the abdomen, known for its role in the immune system, blood storage, and blood filtration

27. To find drunk drivers, police conduct _____ tests.

- adj.* made, done, or happening without method, conscious decision, or any regular pattern

28. The farmer milked the _____ every morning before breakfast.

- n.* a domesticated mammal with characteristic features such as a hump, large udders, and curved horns that is raised for its milk or meat

29. He could not _____ against temptation.

- v.* to make a great effort to do something when it is difficult, or there are a lot of problems; to use force or violence to break away from restraint or constriction

30. The vegetarian burger was an _____ that quickly spread to the United Kingdom.

- n.* the creation of a new device or process resulting from study and experimentation

31. The vegetation here is almost wholly _____.

- adj.* connecting with or describing someone's birth country or place of birth, or someone born in a specific country or place

32. Pakistan's _____ budget was still being reviewed.

- n.* things sent to help countries in need, notably food or money; support

33. Their headquarters are in a _____ skyscraper.

- adj.* of or belonging to the present time or recent times

ANSWERS: 26. spleen, 27. random, 28. cows, 29. struggle, 30. innovation, 31. native, 32. aid, 33. modern

34. The _____ modified crops were resistant to pests and required less water.

adv. in a way that relates to or is produced by genes (= the units in the cells of a living thing received by an animal or plant from its parents) or heredity

35. She is a major _____ to the local food bank, volunteering every week.

n. a person or thing that adds to the achievement, production, or growth of something (such as a project, organization, or publication); a donor or benefactor

36. She had lived through two world wars in her _____.

n. the duration of someone's life or something's existence;

37. The coffee producers in _____ countries are at the sharp end of fluctuations in price.

adj. of or relating to or situated in the area south of the Sahara Desert

38. We must _____ a new system to streamline our workflow and increase efficiency.

v. to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created

39. Hydrogen and oxygen _____ to form water.

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

40. _____ research has opened up new possibilities for the treatment of certain diseases.

adj. relating to changes in gene expression that are not caused by alterations in the underlying DNA sequence but rather by modifications to the structure of DNA or proteins that regulate gene activity

ANSWERS: 34. genetically, 35. contributor, 36. lifetime, 37. sub-Saharan, 38. develop, 39. combine, 40. Epigenetic

41. Our genetic _____ determines the color of our eyes.

- n.* the observable physical or biochemical characteristics of an individual organism that result from the interaction between its genetic makeup and the environment in which it lives

42. They study the _____ of the universe.

- n.* a gradual process of transformation of living things

43. This star is _____ to the naked eye.

- adj.* able to see or understand easily or clearly

44. Leprosy is an indolent _____ disease.

- adj.* able to be passed quickly from one person, animal, or plant to another, especially through air or water

45. There is a lot of _____ in the colors of flowers in the garden.

- n.* the act or state of changing; a difference or change in the way something is done, made or said

46. _____ the text from Italian into English.

- v.* to convert or change words into another language

47. The doctor diagnosed him with a rare _____ that had no known cure.

- n.* a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems

48. As a result of this _____ we have revised our safety measures.

- n.* the act of changing something, usually to improve it, or something changed

ANSWERS: 41. phenotype, 42. evolution, 43. apparent, 44. infectious, 45. variation, 46. Translate, 47. disease, 48. modification,

49. The mRNA _____ was approved in less than a year because it did not contain the fragments of the target virus.

- n.* a substance that is put into the body and protects them from disease by causing them to produce antibodies (= proteins that attack harmful bacteria, viruses, etc.)

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

- adv.* in almost the same way

51. The doctor reviewed the patient's medical records to see if they had previously had their _____ removed.

- n.* a small, tube-shaped organ attached to the large intestine in humans and some animals, which is believed to play a role in the immune system and digestion; supplementary material that is collected and appended at the back of a book

52. _____ advances have disrupted many industries.

- adj.* based on scientific and industrial progress

53. Her eyes _____ with crying.

- v.* to cause very strong feelings such as anger or excitement in a person or a group of people

54. 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

55. Radiation from _____ has a different wavelength.

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

56. Radiation often promotes genetic _____ in plants and animals.

- n.* the way in which genes of a person, plant, animal, or other organism change and produce permanent differences

ANSWERS: 49. vaccine, 50. similarly, 51. appendix, 52. Technological, 53. inflamed, 54. oxygen, 55. sunlight, 56. mutations

57. I advised him to _____ to his new surroundings.

- v.* to make fit for or change to suit a new purpose or environment

58. It's difficult to _____ an addict off drugs once they're hooked.

- v.* to gradually stop feeding a baby or young animal with its mother's milk and to start or accustom to eating other food

59. We can _____ this possibility from those consumptions.

- v.* to remove or get rid of someone or something

60. Anesthetize the gum before _____ the teeth.

- n.* a short passage taken from a book, piece of music, etc.; a substance obtained from something through a specific process; (verb) to obtain from something or to remove something by effort or force

61. Marine _____ populations are declining worldwide due to ocean pollution.

- n.* any animal of which the female gives birth to live young, not eggs, and feeds her young on milk from her own body

62. The instinct to protect one's offspring is _____ into many animal species.

- adj.* built-in or innate, often referring to behavior or traits that are instinctive or automatic, as if pre-programmed in the brain or genetics

63. Cities around the world set records for highest _____ this summer.

- n.* the degree of hotness or coldness of a thing or place

64. Any theorem relies on both _____ fact and assumption.

- adj.* that can be noticed or seen

ANSWERS: 57. adapt, 58. wean, 59. eliminate, 60. extracting, 61. mammal, 62. hardwired, 63. temperatures, 64. observable

65. We _____ the season's total trade deficit at \$50 billion.

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

66. 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

67. We want to _____ ties between our two countries.

v. to make or become better

68. He _____ the letter with hot wax.

v. to close or fasten an envelope, etc. securely; (noun) a large marine mammal that chiefly lives in cold regions and comes on shore to breed

69. Cold temperatures and long, dark winters characterize the _____ climate.

adj. of or relating to the region around the North Pole or the Arctic Ocean; very cold

70. He and I often had _____ not only in personality but also in ideology.

n. a strong disagreement, argument, or a violent clash between two opposing groups or individuals

71. The scientist conducted a study that provided _____ details about the species' behavior.

adj. clearly defined or particular to a certain thing or situation; distinct, explicit, and precise

72. How many _____ does the average lion have?

n. descendant; any immature animal or plant

73. Various artificially induced causes are _____ our ecosystem.

v. to utter intentions of injury or punishment against someone

ANSWERS: 65. estimated, 66. genetic, 67. improve, 68. sealed, 69. arctic, 70. conflicts, 71. specific, 72. offspring, 73. threatening

74. The patient was prescribed a _____ supplement to help prevent osteoporosis.

n. a chemical element with the symbol Ca and atomic number 20, which is an important mineral for the human body

75. This documentary deals with the _____ biology of the buffalo.

adj. connected with the process of reproduction; relating to reproducing babies, young animals, or plants

76. The _____ properties of this herb have been known to help with various ailments.

adj. of or relating to the treatment or cure of disease

77. Most babies can readily _____ a wide variety of foods.

v. to transform food into absorbable substances; break down

78. The committee _____ several apparent inconsistencies.

v. to conduct a systematic or formal inquiry to identify and evaluate the facts of a crime, problem, statement, etc. to establish the truth

79. The new prime minister has vowed to take measures against the _____ economic crisis.

adj. continuing to exist or develop, or currently happening

80. Eyeless fish _____ in dark caves.

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

81. She vacated the position when she got _____.

adj. having a baby or young animal developing in the uterus

ANSWERS: 74. calcium, 75. reproductive, 76. medicinal, 77. digest, 78. investigated, 79. ongoing, 80. evolved, 81. pregnant

82. _____ elections were held in several European countries.

adj. belonging to or used by a group rather than individuals; for common use

83. The hikers finally reached the _____ after a long climb up the mountain.

n. an elevated, relatively level expanse of land, typically vast and extending over a large area; a state or period of little or no change following a period of growth, development, or progress

84. A _____ is an uncommon sight in this area.

n. a person who is in the street, especially in an area where vehicles go

85. He has been prescribed an _____ to treat his infection.

n. a substance or drug that kills or slows down the growth of bacteria

86. These birds can only _____ in temperate climates.

v. to live or exist despite a dangerous event or period

87. Breast _____ is the most common type of cancer in women.

n. abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells

88. The _____ temperatures during the winter can be dangerous for those not properly dressed.

adj. indicating a temperature that is below freezing point; extremely cold, or frigid

89. Better sleep leads to increased _____.

n. the set of chemical reactions in cells or organisms that are necessary for life-sustaining

ANSWERS: 82. Communal, 83. plateau, 84. pedestrian, 85. antibiotic, 86. survive, 87. cancer, 88. sub-zero, 89. metabolism

ANSWERS: