

# Englist.me



## Vocabulary Builder Reference from...

*Tierney Thys and Christian Sardet: Meet the microbes that could eat your trash | TED Talk*

[https://www.ted.com/talks/tierney\\_thys\\_and\\_christian\\_sardet\\_meet\\_the\\_microbes\\_that\\_could\\_eat\\_your\\_trash](https://www.ted.com/talks/tierney_thys_and_christian_sardet_meet_the_microbes_that_could_eat_your_trash)

### All Words

#### IMPORTANT

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## Session 1: Word List

### invisible

*adj.* impossible or nearly impossible to see

*synonym*: hidden, imperceptible, unseen

(1) an **invisible** asset, (2) **invisible** stars

The phenomenon is **invisible** at optical wavelengths.

### 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.

### swarm

*n.* a group of many things, such as insects, fishes, etc., in the air or water or on the ground

*synonym*: horde, hive, throng

(1) a **swarm** of mosquitoes, (2) locust **swarm**

A **swarm** of angry bees attacked because we had approached the hive.

### bacteria

*n.* single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease

*synonym* : microorganism, microbe

(1) pathogenic **bacteria**, (2) harmless **bacteria**

**Bacteria** prevalent in hospitals are often resistant to antibiotics.

## archaea

*n.* a group of single-celled microorganisms distinguished from bacteria by their unique cell wall structure and biochemical characteristics, which are found in extreme environments such as hot springs and salt flats

*synonym* : microbe, microorganism

(1) **archaea** microorganism, (2) thermophile **archaea**

The study of **archaea** is important for understanding the origins of life on Earth

## fungus

*n.* a type of organism that includes yeasts, molds, and mushrooms, which are heterotrophic, meaning they do not produce their food and must consume organic matter to survive

*synonym* : mold, mildew, yeast

(1) **fungus** infection, (2) symbiotic **fungus**

Certain types of **fungus** can be toxic to humans, causing severe illness if ingested.

## 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.

## enzyme

*n.* a substance produced by a living organism that acts as a catalyst to bring about a specific biochemical reaction

*synonym* : catalyst, activator, accelerator

(1) **enzyme** reaction, (2) lack of digestive **enzymes**

A deficiency in the **enzyme** can lead to a medical condition.

## organic

*adj.* of or derived from biological substance; producing plants and animals for food and other items without the use of

synthetic chemicals

*synonym* : biological

(1) **organic** soils, (2) eat **organic** food

The kidney is an **organic** component of the body.

## 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.

## nutrient

*n.* any substance that is essential for the maintenance and growth of living things

*synonym* : food, vitamin

(1) **nutrient** medicine, (2) a **nutrient** for hair

They used fast-acting **nutrients** on the flowers in the flower beds.

## widespread

*adj.* existing or happening in various places or among many people

*synonym* : across-the-board, overall, general

(1) **widespread** use, (2) **widespread** fear of nuclear war

In medieval times, death punishment was **widespread** and socially accepted.

## biodegrade

*v.* to decay naturally by microorganisms, such as bacteria and fungi

(1) **biodegrade** by the microorganism, (2) bioplastic designed to **biodegrade**

The company's plastic products are easily **biodegraded** thanks to a unique manufacturing process.

## 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.

## coal

*n.* a combustible black or brownish-black sedimentary rock that is found below the ground and burnt to produce heat

*synonym* : ember

(1) a **coal-fired** ship, (2) construction of new **coal** plants

We combust **coal** and other fossil fuels to generate electricity.

## refined

*adj.* made pure by having impurities or unwanted elements removed by processing

*synonym* : cultured, purified, tasteful

(1) adopt a **refined** attitude, (2) a lot of **refined** sugar

She was highly **refined** in her choice of apparel.

## polymer

*n.* a substance composed of macromolecules (= large groups of atoms) made from many smaller and simpler molecules

(1) **polymer** fiber, (2) biological **polymer**

We are developing plant-derived **polymers** to reduce environmental impact.

## 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.

## incredibly

*adv.* in a way that is very difficult to believe; exceedingly or extremely

*synonym* : enormously, exceptionally, extraordinarily

(1) **incredibly** cheerful character, (2) get **incredibly** insecure

Several cities are experiencing **incredibly** high

unemployment rates.

## chemical

*adj.* relating to or connected with chemistry;

*synonym* : chemic, synthetic

(1) toxic **chemicals**, (2) a **chemical** compound

The firm has grown into a large **chemical** manufacturing.

## 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.

## human-made

*adj.* created or produced by humans; artificial

*synonym* : artificial, unnatural, manufactured

(1) **human-made** climate change, (2) the worst **human-made** disaster

The bridge is a **human-made** structure and was built to span the river.

## bond

*n.* a close emotional connection between two or more people; a certificate of debt that a government or corporation issues to raise money

*synonym* : bind, adhesion, attachment

(1) **bond** as a family, (2) global **bond** market

They had formed a friendship **bond**.

## comparable

*adj.* able to link the similarities or differences with others; similar or equivalent to someone or something

*synonym* : equal, commensurate, similar

(1) **comparable** sales, (2) a **comparable** amount of energy

Humans and apes have **comparable** anatomical structures.

## 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.

## degrade

*v.* to make something worse, especially in quality; to show or treat someone in a way that makes them seem no value and do not have the respect or reasonable opinion of others

*synonym*: demean, disgrace, impair

(1) **degrade** his public image, (2) **degrade** environmental quality

You should not **degrade** yourself by allowing them to use you.

## countless

*adj.* too numerous to be counted or very many

*synonym*: innumerable, myriad, numerous

(1) **countless** hours, (2) answer **countless** questions

There are **countless** methods for dealing with stress.

## indigestible

*adj.* not easily digested or broken down by the body; difficult or impossible to understand or comprehend

*synonym*: unpalatable, inedible, unsavory

(1) **indigestible** food, (2) **indigestible** substance

The dish was filled with so much spice that it became **indigestible** for me.

## pile

*n.* a collection of objects positioned one on top of another; a large sum of something, such as money

*synonym*: accumulation, heap, stack

(1) a sand **pile**, (2) the height of a **pile**

After the party, they had to clean up **piles** of dirty dishes.

## roughly

*adv.* approximately but not precisely; with a violent manner

*synonym*: approximately, more or less, around

(1) **roughly** explain my idea, (2) **roughly** speaking

Five miles is **roughly** similar to eight kilometers.

## discard

v. to throw something away or get rid of something that you no longer wanted or need

*synonym*: throw away, reject, abandon

(1) **discard** old beliefs, (2) **discard** the downloaded data  
He **discarded** the old torn shirt and bought a new one.

## trash

n. discarded material, refuse, or waste

*synonym*: garbage, waste, refuse

(1) **trash** bin, (2) **trash** disposal site

The city is taking measures to reduce the amount of **trash** in the streets.

## recycle

v. to sort and collect things to process them and produce valuable materials that can be used again

*synonym*: reclaim, reuse, reprocess

(1) **recycle** the cardboard boxes, (2) **recycle** milk packaging into new paper

We largely **recycle** the circuit board of cell phones because they contain a lot of valuable metals.

## incinerate

v. to burn something, especially waste material completely

*synonym*: burn

(1) **incinerate** waste, (2) the power to **incinerate** nations

For safety reasons, we must completely **incinerate** contaminated protective clothing.

## landfill

n. a site for the disposal of waste materials

*synonym*: dump, trash-yard, waste-yard

(1) disposal in a **landfill**, (2) **landfill** sites

This country faces problems in finding enough suitable **landfill** sites.

## leak

v. to allow liquid or gas to get in or out from a hole or crack in a pipe or container

*synonym*:

outflow, divulge, disclose

(1) **leak** data, (2) **leak** a classified memo

He **leaked** serious accounting irregularities that only people in the company's executive could know.

## 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**.

## pollute

*v.* to make an area or substance, such as land, air, water, etc., dirty or harmful to living things by adding waste matter or harmful chemicals

*synonym*: contaminate, corrupt, degrade

(1) **pollute** the air, (2) **pollute** the thread

We should do our best not to **pollute** the environment.

## 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**.

## 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.

## microplastic

*n.* tiny plastic fragments in the environment originating from consumer products and industrial waste

(1) **microplastic** particle, (2) **microplastic** pollution in the sea



Several scholars have pointed out that inhalation of **microplastics** may have adverse effects on the human body.

### fragment

*n.* a small piece or part broken off or detached

*synonym*: piece, shard, segment

(1) **fragment** of a text, (2) a broken **fragment**

The archaeologist carefully pieced together the tiny **fragments** of pottery found at the dig site.

### fortunate

*adj.* having good luck or lucky

*synonym*: fortuitous, lucky, blessed

(1) **fortunate** situation, (2) less **fortunate** person

He was pretty **fortunate** to pass the exam.

### sludge

*n.* a thick, wet mixture of liquid and solid matter, typically one that is unpleasant or harmful

*synonym*: muck, ooze, mire

(1) **sludge** treatment, (2) **sludge** removal

The **sludge** at the bottom of the river was a toxic hazard for marine life.

### discovery

*n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known

*synonym*: finding, uncovering, detection

(1) a scientific **discovery**, (2) the great **discovery** of the century

Her research team made an important **discovery**.

### identify

*v.* to recognize someone or something and say or prove who or what they are

*synonym*: determine, specify, recognize

(1) **identify** handwriting, (2) **identify** gene sequences

I will introduce you to how to **identify** the leading causes of the malfunction.

## bacterium

*n.* a very small, single-celled microorganism that lacks a nucleus and other membrane-bound organelles

*synonym*: microbe, germ, bug

(1) **bacterium** infection, (2) any rod-shaped **bacterium**

The water in the lake was tested for harmful **bacterium** before it was deemed safe for swimming.

## pet

*n.* an animal that you have at home as a companion and treated kindly

(1) a **pet** bird, (2) a teacher's **pet**

I have a parrot as a **pet**.

## isolate

*v.* to physically or socially separate someone or something from other people or things

*synonym*: separate, sequester, insulate

(1) **isolate** a compound, (2) **isolate** a patient

You should not **isolate** them from the community.

## gene

*n.* the fundamental unit of heredity and the sequence of nucleotides in DNA that codes for the creation of RNA or protein.

*synonym*: factor, cistron

(1) **gene** expression, (2) **gene** cloning

A defective **gene** is responsible for the disease.

## bioengineering

*n.* the application of engineering principles to the design and production of biological systems and products

*synonym*: biomedical engineering, genetic engineering, biotechnology

(1) **bioengineering** field, (2) **bioengineering** techniques

The **bioengineering** lab has state-of-the-art equipment and software for analyzing biological systems and designing new solutions.

## 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.

## 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.

## boost

v. to improve, raise, or increase something

*synonym*: raise, advance, promote

(1) **boost** the economy, (2) **boost** flexibility

The new service helped **boost** net income by 10%.

## 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**.

## operate

v. to work in a particular way; to supervise something

*synonym*: work, use, employ

(1) **operate** 24 hours a day, (2) manually **operate** a machine

This machine is too difficult to **operate** for me.

## 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.

## compost

n. a mixture of organic matter, such as food scraps, yard waste, and manure, that is allowed to decompose and is used as fertilizer for plants and garden soil

*synonym*: fertilizer, humus, manure

(1) organic **compost**, (2) **compost** pile

You can add coffee grounds and crushed eggshells to your **compost** to improve the pH balance.

## rot

*v.* to decay, or cause something to decay, naturally and gradually

*synonym*: perish, decay, corrode

(1) begin to **rot**, (2) **rot** with age

Please refrigerate the meat, or it will **rot**.

## branch

*n.* a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization

*synonym*: limb, twig, bough

(1) **branch** office, (2) a **branch** pipe

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

## sequence

*n.* a series of related events, actions, numbers, etc., which have a particular order

*synonym*: arrangement, succession, series

(1) the **sequence** of the seasons, (2) the DNA **sequence**

We do move forward with those tasks in **sequence** next week.

## microorganism

*n.* a very small living thing that may exist in its single-celled form or as a colony of cells and is too small to be seen without a microscope

*synonym*: germ, microbe, bacterium

(1) pathogenic **microorganism**, (2) **microorganisms** in his gut

This **microorganism** is a producer of respiratory disease.

## 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.

## engineer

*n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software

*synonym*: architect, creator, builder

(1) a civil **engineer**, (2) **engineer** shortage

The **engineer** will repair my telephone tomorrow morning.

## quantity

*n.* the amount or number of something; magnitude

*synonym*: abundance, portion, amount

(1) half **quantity**, (2) residual **quantity**

In southward, the average annual water **quantity** increases.

## enhance

*v.* to increase or improve the quality, amount, or strength of someone or something

*synonym*: improve, enrich, refine

(1) **enhance** value, (2) **enhance** the flavor of the vanilla

The new strategy will **enhance** the profitability of our company.

## 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.

## die-hard

*adj.* (of a person) extremely loyal, dedicated, or enthusiastic; unwilling to give up

*synonym*: dedicated, committed, steadfast

(1) **die-hard** fanatic, (2) **die-hard** militarist

He was a **die-hard** football team fan and never missed a game.

**abundant**

*adj.* present in great quantity

*synonym* : ample, plentiful, generative

(1) live an **abundant** life, (2) an **abundant** supply of water

The country has **abundant** oil and natural gas resources.

**tolerate**

*v.* to allow something to exist or happen, even if it is disliked or opposed

*synonym* : endure, put up with, bear

(1) **tolerate** his disrespectful behavior, (2) **tolerate** ambiguity

I can't **tolerate** spicy food, and it always gives me heartburn

**intensive**

*adj.* involving a lot of work or activity in a short time

*synonym* : thorough, comprehensive, in-depth

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

The construction industry is labor **intensive**, although it has been somewhat automated by introducing large machinery.

**fraction**

*n.* a small part or item forming a piece of a whole; the quotient of two rational numbers

*synonym* : piece, part, fragment

(1) a **fractional** share of the vote, (2) a numerator in a **fraction**

He spent only a **fraction** of his earnings.

**tolerant**

*adj.* accepting different views, beliefs, or practices without judgment or interference

*synonym* : forgiving, lenient, permissive

(1) a **tolerant** teacher, (2) **tolerant** of his failure

She was known for her **tolerant** attitude toward different cultures.

**plastivorous**

*adj.* describes an organism that feeds on plastic or can survive on a diet that contains primarily plastic material

*synonym* : plastic-eating, plastic-consuming, plastic-devouring

(1) **plastivorous** organisms, (2) **plastivorous** bacteria

**Plastivorous** animals have adapted to consume plastic waste in their environment.

## 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.

## hostile

*adj.* unfriendly or aggressively opposed

*synonym* : unfriendly, aggressive, antagonistic

(1) take up a **hostile** attitude, (2) **hostile** environment

The **hostile** takeover of the company was met with resistance from the employees.

## rely

*v.* to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.

*synonym* : depend, count, lean

(1) **rely** on convenience stores, (2) **rely** entirely on him

Babies heavily **rely** on others for food.

## enormous

*adj.* extremely large or great

*synonym* : huge, giant, gigantic

(1) **enormous** amount, (2) **enormous** potential

Shakespeare's output of poetry was **enormous**.

## mess

*n.* a state of confusion, dirtiness, or untidiness; (verb) to fail to do something or to make something dirty or untidy

*synonym* : disarray, confusion, predicament

(1) have a whole **mess**, (2) get into a **mess**

He made a frightful **mess** in his room.

## rethink

*v.* to consider again a plan, idea, etc., especially to change it

*synonym* : reexplore, review, reconsider

(1) **rethink** a marketing plan, (2) **rethink** the role of the manager

We have to **rethink** our company's product lineup for further growth.

## relation

*n.* the way two persons or groups of people feel and act toward one another

*synonym* : association, linkage, connection

(1) **relation** between cause and effect, (2) **relation** of inclusion

The industrial **relations** laws were passed with little to no alteration.

## urgently

*adv.* in a way that requires immediate action or attention, especially before anything else, because of being very important

*synonym* : promptly, immediately, swiftly

(1) tackle the problem **urgently**, (2) **urgently** required  
I need to send this email **urgently**.

## entourage

*n.* a group of people who attend or surround an important and influential person

*synonym* : retinue

(1) presidential **entourage**, (2) member of his **entourage**  
The politician and his **entourage** arrived half an hour late.



## Session 2: Spelling

1. r\_t with age *v.* to decay, or cause something to decay, naturally and gradually
2. a civil en\_\_\_\_er *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
3. a ch\_\_\_\_al compound *adj.* relating to or connected with chemistry;
4. pathogenic mic\_\_\_\_\_ism *n.* a very small living thing that may exist in its single-celled form or as a colony of cells and is too small to be seen without a microscope
5. eat or\_\_\_\_c food *adj.* of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals
6. in\_\_\_\_\_ve care *adj.* involving a lot of work or activity in a short time
7. sl\_\_\_e removal *n.* a thick, wet mixture of liquid and solid matter, typically one that is unpleasant or harmful
8. ba\_\_\_\_\_um infection *n.* a very small, single-celled microorganism that lacks a nucleus and other membrane-bound organelles
9. symbiotic fu\_\_\_s *n.* a type of organism that includes yeasts, molds, and mushrooms, which are heterotrophic, meaning they do not produce their food and must consume organic matter to survive

ANSWERS: 1. rot, 2. engineer, 3. chemical, 4. microorganism, 5. organic, 6. intensive, 7. sludge, 8. bacterium, 9. fungus

- |                                  |   |
|----------------------------------|---|
| 10. a teacher's p_t              | <i>n.</i> an animal that you have at home as a companion and treated kindly   |
| 11. co_____ss hours              | <i>adj.</i> too numerous to be counted or very many   |
| 12. lack of digestive en___es    | <i>n.</i> a substance produced by a living organism that acts as a catalyst to bring about a specific biochemical reaction                        |
| 13. inc_____te waste             | <i>v.</i> to burn something, especially waste material completely   |
| 14. re_____e the cardboard boxes | <i>v.</i> to sort and collect things to process them and produce valuable materials that can be used again  |
| 15. mi_____es sterilizer         | <i>n.</i> a tiny living thing that can only be seen with a microscope and that may cause disease  |
| 16. sl___e treatment             | <i>n.</i> a thick, wet mixture of liquid and solid matter, typically one that is unpleasant or harmful  |
| 17. global b__d market           | <i>n.</i> a close emotional connection between two or more people; a certificate of debt that a government or corporation issues to raise money   |
| 18. locust sw__m                 | <i>n.</i> a group of many things, such as insects, fishes, etc., in the air or water or on the ground   |
| 19. or_____c soils               | <i>adj.</i> of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals |

ANSWERS: 10. pet, 11. countless, 12. enzyme, 13. incinerate, 14. recycle, 15. microbe, 16. sludge, 17. bond, 18. swarm, 19. organic

20. l\_\_k data *v.* to allow liquid or gas to get in or out from a hole or crack in a pipe or container
21. di\_\_\_\_d old beliefs *v.* to throw something away or get rid of something that you no longer wanted or need
22. es\_\_\_\_te a fair value *v.* to guess or calculate the cost, size, value, etc. of something
23. the se\_\_\_\_ce of the seasons *n.* a series of related events, actions, numbers, etc., which have a particular order
24. organic co\_\_\_\_t *n.* a mixture of organic matter, such as food scraps, yard waste, and manure, that is allowed to decompose and is used as fertilizer for plants and garden soil
25. the great di\_\_\_\_ry of the century *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
26. gen\_\_\_\_ly inherited traits *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
27. bio\_\_\_\_ing field *n.* the application of engineering principles to the design and production of biological systems and products
28. 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

ANSWERS: 20. leak, 21. discard, 22. estimate, 23. sequence, 24. compost, 25. discovery, 26. genetically, 27. bioengineering, 28. planet

29. mic\_\_\_\_\_isms in his gut      *n.* a very small living thing that may exist in its single-celled form or as a colony of cells and is too small to be seen without a microscope
30. medical l\_b      *n.* a workplace for the conduct of scientific research; a laboratory
31. en\_\_\_\_\_er shortage      *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
32. va\_\_\_\_\_t types of pigeon      *n.* something that is slightly different from others of the same type
33. mo\_\_\_\_\_le behavior      *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
34. ev\_\_\_\_\_e over the past decade      *v.* to develop gradually, or to cause the development of something or someone gradually
35. hum\_\_\_\_\_de climate change      *adj.* created or produced by humans; artificial
36. chaotic env\_\_\_\_\_nt      *n.* the natural world such as air, water, and land in which humans, animals, and plants live
37. get inc\_\_\_\_\_ly insecure      *adv.* in a way that is very difficult to believe; exceedingly or extremely
38. di\_\_\_\_\_rd fanatic      *adj.* (of a person) extremely loyal, dedicated, or enthusiastic; unwilling to give up
39. is\_\_\_\_\_e a patient      *v.* to physically or socially separate someone or something from other people or things

ANSWERS: 29. microorganism, 30. lab, 31. engineer, 32. variant, 33. molecule, 34. evolve, 35. human-made, 36. environment, 37. incredibly, 38. die-hard, 39. isolate

40. a sand p\_\_e *n.* a collection of objects positioned one on top of another; a large sum of something, such as money
41. extreme tem\_\_\_\_\_res *n.* the degree of hotness or coldness of a thing or place
42. save the pl\_\_\_t *n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
43. a lot of re\_\_\_\_d sugar *adj.* made pure by having impurities or unwanted elements removed by processing
44. in\_\_\_\_\_ve agriculture *adj.* involving a lot of work or activity in a short time
45. bio\_\_\_\_\_ing techniques *n.* the application of engineering principles to the design and production of biological systems and products
46. member of his en\_\_\_\_\_ge *n.* a group of people who attend or surround an important and influential person
47. l\_b instrument *n.* a workplace for the conduct of scientific research; a laboratory
48. ad\_\_t fully to the environment *v.* to make fit for or change to suit a new purpose or environment
49. a va\_\_\_\_\_t of the same word *n.* something that is slightly different from others of the same type
50. id\_\_\_\_\_fy handwriting *v.* to recognize someone or something and say or prove who or what they are
51. nu\_\_\_\_\_nt medicine *n.* any substance that is essential for the maintenance and growth of living things

ANSWERS: 40. pile, 41. temperature, 42. planet, 43. refined, 44. intensive, 45. bioengineering, 46. entourage, 47. lab, 48. adapt, 49. variant, 50. identify, 51. nutrient

52. harmless ba\_\_\_\_ia *n.* single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease
53. re\_\_\_\_on of inclusion *n.* the way two persons or groups of people feel and act toward one another
54. r\_\_y on convenience stores *v.* to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.
55. marine ec\_\_\_\_em *n.* all the plants and living creatures in an area and the way they affect each other and the environment
56. pathogenic ba\_\_\_\_ia *n.* single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease
57. to\_\_\_\_nt of his failure *adj.* accepting different views, beliefs, or practices without judgment or interference
58. re\_\_\_\_k the role of the manager *v.* to consider again a plan, idea, etc., especially to change it
59. begin to r\_t *v.* to decay, or cause something to decay, naturally and gradually
60. a c\_\_l-fired ship *n.* a combustible black or brownish-black sedimentary rock that is found below the ground and burnt to produce heat

ANSWERS: 52. bacteria, 53. relation, 54. rely, 55. ecosystem, 56. bacteria, 57. tolerant, 58. rethink, 59. rot, 60. coal

61. po\_\_\_\_e the thread *v.* to make an area or substance, such as land, air, water, etc., dirty or harmful to living things by adding waste matter or harmful chemicals
62. further mod\_\_\_\_\_ion *n.* the act of changing something, usually to improve it, or something changed
63. fu\_\_\_s infection *n.* a type of organism that includes yeasts, molds, and mushrooms, which are heterotrophic, meaning they do not produce their food and must consume organic matter to survive
64. presidential en\_\_\_\_\_ge *n.* a group of people who attend or surround an important and influential person
65. change the ec\_\_\_\_\_em *n.* all the plants and living creatures in an area and the way they affect each other and the environment
66. ho\_\_\_\_\_e environment *adj.* unfriendly or aggressively opposed
67. re\_\_\_\_\_e milk packaging into new paper *v.* to sort and collect things to process them and produce valuable materials that can be used again
68. a fr\_\_\_\_\_onal share of the vote *n.* a small part or item forming a piece of a whole; the quotient of two rational numbers
69. di\_\_\_t information *v.* to transform food into absorbable substances; break down
70. help di\_\_\_t food *v.* to transform food into absorbable substances; break down
71. to\_\_\_\_\_te ambiguity *v.* to allow something to exist or happen, even if it is disliked or opposed

ANSWERS: 61. pollute, 62. modification, 63. fungus, 64. entourage, 65. ecosystem, 66. hostile, 67. recycle, 68. fraction, 69. digest, 70. digest, 71. tolerate

72. g\_\_e cloning *n.* the fundamental unit of heredity and the sequence of nucleotides in DNA that codes for the creation of RNA or protein.
73. di\_\_\_\_d the downloaded data *v.* to throw something away or get rid of something that you no longer wanted or need
74. the power to inc\_\_\_\_te nations *v.* to burn something, especially waste material completely
75. en\_\_\_\_e value *v.* to increase or improve the quality, amount, or strength of someone or something
76. com\_\_\_\_le sales *adj.* able to link the similarities or differences with others; similar or equivalent to someone or something
77. op\_\_\_\_e 24 hours a day *v.* to work in a particular way; to supervise something
78. fo\_\_\_\_te situation *adj.* having good luck or lucky
79. bo\_\_t flexibility *v.* to improve, raise, or increase something
80. the worst hum\_\_\_\_de disaster *adj.* created or produced by humans; artificial
81. any rod-shaped ba\_\_\_\_um *n.* a very small, single-celled microorganism that lacks a nucleus and other membrane-bound organelles
82. ad\_\_t as needed *v.* to make fit for or change to suit a new purpose or environment
83. en\_\_\_\_us potential *adj.* extremely large or great

ANSWERS: 72. gene, 73. discard, 74. incinerate, 75. enhance, 76. comparable, 77. operate, 78. fortunate, 79. boost, 80. human-made, 81. bacterium, 82. adapt, 83. enormous



84. re\_\_\_\_\_on between cause and effect     *n.* the way two persons or groups of people feel and act toward one another
85. br\_\_\_\_h office     *n.* a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization
86. im\_\_\_\_\_e the test score     *v.* to make or become better
87. live an ab\_\_\_\_\_nt life     *adj.* present in great quantity
88. bio\_\_\_\_\_de by the microorganism     *v.* to decay naturally by microorganisms, such as bacteria and fungi
89. g\_\_e expression     *n.* the fundamental unit of heredity and the sequence of nucleotides in DNA that codes for the creation of RNA or protein.
90. di\_\_\_\_\_rd militarist     *adj.* (of a person) extremely loyal, dedicated, or enthusiastic; unwilling to give up
91. a com\_\_\_\_\_le amount of energy     *adj.* able to link the similarities or differences with others; similar or equivalent to someone or something
92. im\_\_\_\_\_e a process     *v.* to make or become better
93. is\_\_\_\_\_e a compound     *v.* to physically or socially separate someone or something from other people or things
94. l\_\_k a classified memo     *v.* to allow liquid or gas to get in or out from a hole or crack in a pipe or container
95. half qu\_\_\_\_\_ty     *n.* the amount or number of something; magnitude

ANSWERS: 84. relation, 85. branch, 86. improve, 87. abundant, 88. biodegrade, 89. gene, 90. die-hard, 91. comparable, 92. improve, 93. isolate, 94. leak, 95. quantity

96. to\_\_\_\_\_te his disrespectful behavior      *v.* to allow something to exist or happen, even if it is disliked or opposed
97. adopt a re\_\_\_\_\_d attitude      *adj.* made pure by having impurities or unwanted elements removed by processing
98. po\_\_\_\_\_e the air      *v.* to make an area or substance, such as land, air, water, etc., dirty or harmful to living things by adding waste matter or harmful chemicals
99. in\_\_\_\_\_le stars      *adj.* impossible or nearly impossible to see
100. re\_\_\_\_\_k a marketing plan      *v.* to consider again a plan, idea, etc., especially to change it
101. mic\_\_\_\_\_tic particle      *n.* tiny plastic fragments in the environment originating from consumer products and industrial waste
102. a numerator in a fr\_\_\_\_\_on      *n.* a small part or item forming a piece of a whole; the quotient of two rational numbers
103. pathogenic mi\_\_\_\_\_e      *n.* a tiny living thing that can only be seen with a microscope and that may cause disease
104. answer co\_\_\_\_\_ss questions      *adj.* too numerous to be counted or very many
105. biological po\_\_\_\_\_r      *n.* a substance composed of macromolecules (= large groups of atoms) made from many smaller and simpler molecules
106. tr\_\_h disposal site      *n.* discarded material, refuse, or waste

ANSWERS: 96. tolerate, 97. refined, 98. pollute, 99. invisible, 100. rethink, 101. microplastic, 102. fraction, 103. microbe, 104. countless, 105. polymer, 106. trash

107. de\_\_\_\_\_e his public image      *v.* to make something worse, especially in quality; to show or treat someone in a way that makes them seem no value and do not have the respect or reasonable opinion of others
108. fr\_\_\_\_\_nt of a text      *n.* a small piece or part broken off or detached
109. evolutionary bi\_\_\_\_\_y      *n.* the scientific study of life and the natural processes of living things
110. cell and molecular bi\_\_\_\_\_y      *n.* the scientific study of life and the natural processes of living things
111. ev\_\_\_\_\_e      *v.* to develop gradually, or to cause the development of something or someone gradually
112. have a whole m\_\_\_\_s      *n.* a state of confusion, dirtiness, or untidiness; (verb) to fail to do something or to make something dirty or untidy
113. co\_\_\_\_\_e chemically with another substance      *v.* to join or merge to form a single thing or group
114. the atmospheric tem\_\_\_\_\_re      *n.* the degree of hotness or coldness of a thing or place
115. en\_\_\_\_\_e the flavor of the vanilla      *v.* to increase or improve the quality, amount, or strength of someone or something
116. an in\_\_\_\_\_le asset      *adj.* impossible or nearly impossible to see
117. a nu\_\_\_\_\_nt for hair      *n.* any substance that is essential for the maintenance and growth of living things
118. pla\_\_\_\_\_ous organisms      *adj.* describes an organism that feeds on plastic or can survive on a diet that contains primarily plastic material

ANSWERS: 107. degrade, 108. fragment, 109. biology, 110. biology, 111. evolve, 112. mess, 113. combine, 114. temperature, 115. enhance, 116. invisible, 117. nutrient, 118. plastivorous

119. en\_\_\_e reaction *n.* a substance produced by a living organism that acts as a catalyst to bring about a specific biochemical reaction
120. the DNA se\_\_\_\_\_ce *n.* a series of related events, actions, numbers, etc., which have a particular order
121. ur\_\_\_\_\_ly required *adv.* in a way that requires immediate action or attention, especially before anything else, because of being very important
122. disposal in a la\_\_\_\_\_ll *n.* a site for the disposal of waste materials
123. wid\_\_\_\_\_ad use *adj.* existing or happening in various places or among many people
124. r\_\_y entirely on him *v.* to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.
125. ro\_\_\_\_\_y explain my idea *adv.* approximately but not precisely; with a violent manner
126. env\_\_\_\_\_nt affairs *n.* the natural world such as air, water, and land in which humans, animals, and plants live
127. tr\_\_h bin *n.* discarded material, refuse, or waste
128. en\_\_\_\_\_us amount *adj.* extremely large or great
129. a mod\_\_\_\_\_ion of last year's model *n.* the act of changing something, usually to improve it, or something changed
130. bioplastic designed to bio\_\_\_\_\_de *v.* to decay naturally by microorganisms, such as bacteria and fungi

ANSWERS: 119. enzyme, 120. sequence, 121. urgently, 122. landfill, 123. widespread, 124. rely, 125. roughly, 126. environment, 127. trash, 128. enormous, 129. modification, 130. biodegrade

131. a to\_\_\_\_\_nt teacher *adj.* accepting different views, beliefs, or practices without judgment or interference
132. po\_\_\_\_\_r fiber *n.* a substance composed of macromolecules (= large groups of atoms) made from many smaller and simpler molecules
133. the height of a p\_\_e *n.* a collection of objects positioned one on top of another; a large sum of something, such as money
134. de\_\_\_\_\_e environmental quality *v.* to make something worse, especially in quality; to show or treat someone in a way that makes them seem no value and do not have the respect or reasonable opinion of others
135. thermophile ar\_\_\_\_\_a *n.* a group of single-celled microorganisms distinguished from bacteria by their unique cell wall structure and biochemical characteristics, which are found in extreme environments such as hot springs and salt flats
136. a scientific di\_\_\_\_\_ry *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
137. an ab\_\_\_\_\_nt supply of water *adj.* present in great quantity
138. take up a ho\_\_\_\_\_e attitude *adj.* unfriendly or aggressively opposed
139. small mo\_\_\_\_\_les *n.* a group of two or more atoms held together by attractive forces known as chemical bonds

ANSWERS: 131. tolerant, 132. polymer, 133. pile, 134. degrade, 135. archaea, 136. discovery, 137. abundant, 138. hostile, 139. molecule

140. b\_\_d as a family *n.* a close emotional connection between two or more people; a certificate of debt that a government or corporation issues to raise money
141. bo\_\_t the economy *v.* to improve, raise, or increase something
142. a broken fr\_\_\_\_nt *n.* a small piece or part broken off or detached
143. get into a m\_\_s *n.* a state of confusion, dirtiness, or untidiness; (verb) to fail to do something or to make something dirty or untidy
144. less fo\_\_\_\_\_te person *adj.* having good luck or lucky
145. construction of new c\_\_l plants *n.* a combustible black or brownish-black sedimentary rock that is found below the ground and burnt to produce heat
146. inc\_\_\_\_\_ly cheerful character *adv.* in a way that is very difficult to believe; exceedingly or extremely
147. manually op\_\_\_\_\_e a machine *v.* to work in a particular way; to supervise something
148. gen\_\_\_\_\_ly manipulated plant *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
149. ind\_\_\_\_\_ble food *adj.* not easily digested or broken down by the body; difficult or impossible to understand or comprehend
150. id\_\_\_\_\_fy gene sequences *v.* to recognize someone or something and say or prove who or what they are
151. ro\_\_\_\_\_y speaking *adv.* approximately but not precisely; with a violent manner

ANSWERS: 140. bond, 141. boost, 142. fragment, 143. mess, 144. fortunate, 145. coal, 146. incredibly, 147. operate, 148. genetically, 149. indigestible, 150. identify, 151. roughly

152. a sw\_\_m of mosquitoes *n.* a group of many things, such as insects, fishes, etc., in the air or water or on the ground
153. wid\_\_\_\_\_ad fear of nuclear war *adj.* existing or happening in various places or among many people
154. residual qu\_\_\_\_\_ty *n.* the amount or number of something; magnitude
155. co\_\_\_\_\_t pile *n.* a mixture of organic matter, such as food scraps, yard waste, and manure, that is allowed to decompose and is used as fertilizer for plants and garden soil
156. es\_\_\_\_\_te this chicken to weigh three pounds *v.* to guess or calculate the cost, size, value, etc. of something
157. a br\_\_\_h pipe *n.* a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization
158. ind\_\_\_\_\_ble substance *adj.* not easily digested or broken down by the body; difficult or impossible to understand or comprehend
159. tackle the problem ur\_\_\_\_\_ly *adv.* in a way that requires immediate action or attention, especially before anything else, because of being very important
160. ar\_\_\_\_\_a microorganism *n.* a group of single-celled microorganisms distinguished from bacteria by their unique cell wall structure and biochemical characteristics, which are found in extreme environments such as hot springs and salt flats

ANSWERS: 152. swarm, 153. widespread, 154. quantity, 155. compost, 156. estimate, 157. branch, 158. indigestible, 159. urgently, 160. archaea

161. a p\_t bird *n.* an animal that you have at home as a companion and treated kindly
162. toxic ch\_\_\_\_als *adj.* relating to or connected with chemistry;
163. la\_\_\_\_ll sites *n.* a site for the disposal of waste materials
164. co\_\_\_\_e augmented reality *v.* to join or merge to form a single thing or group
165. pla\_\_\_\_ous bacteria *adj.* describes an organism that feeds on plastic or can survive on a diet that contains primarily plastic material
166. mic\_\_\_\_tic pollution in the sea *n.* tiny plastic fragments in the environment originating from consumer products and industrial waste

ANSWERS: 161. pet, 162. chemical, 163. landfill, 164. combine, 165. plastivorous, 166. microplastic



## Session 3: Fill in the Blanks

1. I have a parrot as a \_\_\_\_.  
*n.* an animal that you have at home as a companion and treated kindly
2. The phenomenon is \_\_\_\_\_ at optical wavelengths.  
*adj.* impossible or nearly impossible to see
3. In southward, the average annual water \_\_\_\_\_ increases.  
*n.* the amount or number of something; magnitude
4. The new service helped \_\_\_\_\_ net income by 10%.  
*v.* to improve, raise, or increase something
5. Please refrigerate the meat, or it will \_\_\_\_\_.  
*v.* to decay, or cause something to decay, naturally and gradually
6. \_\_\_\_\_ animals have adapted to consume plastic waste in their environment.  
*adj.* describes an organism that feeds on plastic or can survive on a diet that contains primarily plastic material
7. Certain types of \_\_\_\_\_ can be toxic to humans, causing severe illness if ingested.  
*n.* a type of organism that includes yeasts, molds, and mushrooms, which are heterotrophic, meaning they do not produce their food and must consume organic matter to survive
8. We have to \_\_\_\_\_ our company's product lineup for further growth.  
*v.* to consider again a plan, idea, etc., especially to change it

ANSWERS: 1. pet, 2. invisible, 3. quantity, 4. boost, 5. rot, 6. Plastivorous, 7. fungus, 8. rethink

9. 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
10. Five miles is \_\_\_\_\_ similar to eight kilometers.  
*adv.* approximately but not precisely; with a violent manner
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. The Prime Minister will pay a courtesy visit to the Nobel laureate's \_\_\_\_\_.  
*n.* a workplace for the conduct of scientific research; a laboratory
13. Hydrogen and oxygen \_\_\_\_\_ to form water.  
*v.* to join or merge to form a single thing or group
14. I can't \_\_\_\_\_ spicy food, and it always gives me heartburn  
*v.* to allow something to exist or happen, even if it is disliked or opposed
15. The new strategy will \_\_\_\_\_ the profitability of our company.  
*v.* to increase or improve the quality, amount, or strength of someone or something
16. For safety reasons, we must completely \_\_\_\_\_ contaminated protective clothing.  
*v.* to burn something, especially waste material completely
17. I need to send this email \_\_\_\_\_.  
*adv.* in a way that requires immediate action or attention, especially before anything else, because of being very important

ANSWERS: 9. biology, 10. roughly, 11. variant, 12. lab, 13. combine, 14. tolerate, 15. enhance, 16. incinerate, 17. urgently

18. The firm has grown into a large \_\_\_\_\_ manufacturing.

*adj.* relating to or connected with chemistry;

19. 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

20. The dish was filled with so much spice that it became \_\_\_\_\_ for me.

*adj.* not easily digested or broken down by the body; difficult or impossible to understand or comprehend

21. We are developing plant-derived \_\_\_\_\_ to reduce environmental impact.

*n.* a substance composed of macromolecules (= large groups of atoms) made from many smaller and simpler molecules

22. A \_\_\_\_\_ of angry bees attacked because we had approached the hive.

*n.* a group of many things, such as insects, fishes, etc., in the air or water or on the ground

23. The water in the lake was tested for harmful \_\_\_\_\_ before it was deemed safe for swimming.

*n.* a very small, single-celled microorganism that lacks a nucleus and other membrane-bound organelles

24. He was a \_\_\_\_\_ football team fan and never missed a game.

*adj.* (of a person) extremely loyal, dedicated, or enthusiastic; unwilling to give up

25. The construction industry is labor \_\_\_\_\_ although it has been somewhat automated by introducing large machinery.

*adj.* involving a lot of work or activity in a short time

ANSWERS: 18. chemical, 19. genetically, 20. indigestible, 21. polymers, 22. swarm, 23. bacterium, 24. die-hard, 25. intensive,

26. We do move forward with those tasks in \_\_\_\_\_ next week.  
*n.* a series of related events, actions, numbers, etc., which have a particular order
27. You should not \_\_\_\_\_ them from the community.  
*v.* to physically or socially separate someone or something from other people or things
28. We combust \_\_\_\_\_ and other fossil fuels to generate electricity.  
*n.* a combustible black or brownish-black sedimentary rock that is found below the ground and burnt to produce heat
29. Eyeless fish \_\_\_\_\_ in dark caves.  
*v.* to develop gradually, or to cause the development of something or someone gradually
30. She was highly \_\_\_\_\_ in her choice of apparel.  
*adj.* made pure by having impurities or unwanted elements removed by processing
31. He \_\_\_\_\_ the old torn shirt and bought a new one.  
*v.* to throw something away or get rid of something that you no longer wanted or need
32. This \_\_\_\_\_ is a producer of respiratory disease.  
*n.* a very small living thing that may exist in its single-celled form or as a colony of cells and is too small to be seen without a microscope
33. The industrial \_\_\_\_\_ laws were passed with little to no alteration.  
*n.* the way two persons or groups of people feel and act toward one another

ANSWERS: 26. sequence, 27. isolate, 28. coal, 29. evolved, 30. refined, 31. discarded, 32. microorganism, 33. relations

34. The company's plastic products are easily \_\_\_\_\_ thanks to a unique manufacturing process.
- v. to decay naturally by microorganisms, such as bacteria and fungi
35. \_\_\_\_\_ 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
36. A deficiency in the \_\_\_\_\_ can lead to a medical condition.
- n. a substance produced by a living organism that acts as a catalyst to bring about a specific biochemical reaction
37. We largely \_\_\_\_\_ the circuit board of cell phones because they contain a lot of valuable metals.
- v. to sort and collect things to process them and produce valuable materials that can be used again
38. The kidney is an \_\_\_\_\_ component of the body.
- adj. of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals
39. We want to \_\_\_\_\_ ties between our two countries.
- v. to make or become better
40. After the party, they had to clean up \_\_\_\_\_ of dirty dishes.
- n. a collection of objects positioned one on top of another; a large sum of something, such as money
41. The \_\_\_\_\_ takeover of the company was met with resistance from the employees.
- adj. unfriendly or aggressively opposed

ANSWERS: 34. biodegraded, 35. Microbes, 36. enzyme, 37. recycle, 38. organic, 39. improve, 40. piles, 41. hostile

42. The study of \_\_\_\_\_ is important for understanding the origins of life on Earth
- n.* a group of single-celled microorganisms distinguished from bacteria by their unique cell wall structure and biochemical characteristics, which are found in extreme environments such as hot springs and salt flats
43. He was pretty \_\_\_\_\_ to pass the exam.
- adj.* having good luck or lucky
44. This country faces problems in finding enough suitable \_\_\_\_\_ sites.
- n.* a site for the disposal of waste materials
45. They had formed a friendship \_\_\_\_\_.
- n.* a close emotional connection between two or more people; a certificate of debt that a government or corporation issues to raise money
46. Several cities are experiencing \_\_\_\_\_ high unemployment rates.
- adv.* in a way that is very difficult to believe; exceedingly or extremely
47. Her research team made an important \_\_\_\_\_.
- n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
48. The \_\_\_\_\_ lab has state-of-the-art equipment and software for analyzing biological systems and designing new solutions.
- n.* the application of engineering principles to the design and production of biological systems and products
49. The politician and his \_\_\_\_\_ arrived half an hour late.
- n.* a group of people who attend or surround an important and influential person

ANSWERS: 42. archaea, 43. fortunate, 44. landfill, 45. bond, 46. incredibly, 47. discovery, 48. bioengineering, 49. entourage

50. We should do our best not to \_\_\_\_\_ the environment.

- v.* to make an area or substance, such as land, air, water, etc., dirty or harmful to living things by adding waste matter or harmful chemicals

51. Cities around the world set records for highest \_\_\_\_\_ this summer.

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

52. We \_\_\_\_\_ the season's total trade deficit at \$50 billion.

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

53. You can add coffee grounds and crushed eggshells to your \_\_\_\_\_ to improve the pH balance.

- n.* a mixture of organic matter, such as food scraps, yard waste, and manure, that is allowed to decompose and is used as fertilizer for plants and garden soil

54. Shakespeare's output of poetry was \_\_\_\_\_.

- adj.* extremely large or great

55. They used fast-acting \_\_\_\_\_ on the flowers in the flower beds.

- n.* any substance that is essential for the maintenance and growth of living things

56. The \_\_\_\_\_ of the tree had fallen and blocked the road.

- n.* a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization

57. 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

ANSWERS: 50. pollute, 51. temperatures, 52. estimated, 53. compost, 54. enormous, 55. nutrients, 56. branch, 57. environment

58. \_\_\_\_\_ prevalent in hospitals are often resistant to antibiotics.
- n.* single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease
59. He spent only a \_\_\_\_\_ of his earnings.
- n.* a small part or item forming a piece of a whole; the quotient of two rational numbers
60. The country has \_\_\_\_\_ oil and natural gas resources.
- adj.* present in great quantity
61. I advised him to \_\_\_\_\_ to his new surroundings.
- v.* to make fit for or change to suit a new purpose or environment
62. As a result of this \_\_\_\_\_ we have revised our safety measures.
- n.* the act of changing something, usually to improve it, or something changed
63. 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
64. The city is taking measures to reduce the amount of \_\_\_\_\_ in the streets.
- n.* discarded material, refuse, or waste
65. He made a frightful \_\_\_\_\_ in his room.
- n.* a state of confusion, dirtiness, or untidiness; (verb) to fail to do something or to make something dirty or untidy

ANSWERS: 58. Bacteria, 59. fraction, 60. abundant, 61. adapt, 62. modification, 63. ecosystem, 64. trash, 65. mess



66. Most babies can readily \_\_\_\_\_ a wide variety of foods.

*v.* to transform food into absorbable substances; break down

67. Several scholars have pointed out that inhalation of \_\_\_\_\_ may have adverse effects on the human body.

*n.* tiny plastic fragments in the environment originating from consumer products and industrial waste

68. 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

69. I will introduce you to how to \_\_\_\_\_ the leading causes of the malfunction.

*v.* to recognize someone or something and say or prove who or what they are

70. Humans and apes have \_\_\_\_\_ anatomical structures.

*adj.* able to link the similarities or differences with others; similar or equivalent to someone or something

71. Babies heavily \_\_\_\_\_ on others for food.

*v.* to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.

72. The bridge is a \_\_\_\_\_ structure and was built to span the river.

*adj.* created or produced by humans; artificial

73. He \_\_\_\_\_ serious accounting irregularities that only people in the company's executive could know.

*v.* to allow liquid or gas to get in or out from a hole or crack in a pipe or container

ANSWERS: 66. digest, 67. microplastics, 68. molecule, 69. identify, 70. comparable, 71. rely, 72. human-made, 73. leaked

74. In medieval times, death punishment was \_\_\_\_\_ and socially accepted.  
*adj.* existing or happening in various places or among many people
75. There are \_\_\_\_\_ methods for dealing with stress.  
*adj.* too numerous to be counted or very many
76. The \_\_\_\_\_ will repair my telephone tomorrow morning.  
*n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
77. You should not \_\_\_\_\_ yourself by allowing them to use you.  
*v.* to make something worse, especially in quality; to show or treat someone in a way that makes them seem no value and do not have the respect or reasonable opinion of others
78. The \_\_\_\_\_ at the bottom of the river was a toxic hazard for marine life.  
*n.* a thick, wet mixture of liquid and solid matter, typically one that is unpleasant or harmful
79. A defective \_\_\_\_\_ is responsible for the disease.  
*n.* the fundamental unit of heredity and the sequence of nucleotides in DNA that codes for the creation of RNA or protein.
80. This machine is too difficult to \_\_\_\_\_ for me.  
*v.* to work in a particular way; to supervise something
81. The archaeologist carefully pieced together the tiny \_\_\_\_\_ of pottery found at the dig site.  
*n.* a small piece or part broken off or detached

ANSWERS: 74. widespread, 75. countless, 76. engineer, 77. degrade, 78. sludge, 79. gene, 80. operate, 81. fragments

82. She was known for her \_\_\_\_\_ attitude toward different cultures.

*adj.* accepting different views, beliefs, or practices without judgment or interference

83. Mercury is the closest \_\_\_\_\_ to the sun.

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

ANSWERS: 82. tolerant, 83. planet