

# Englist.me



## Vocabulary Builder Reference from...

Roey Tzezana: Could human civilization spread across the whole galaxy? | TED Talk

[https://www.ted.com/talks/roey\\_tzezana\\_could\\_huma  
n\\_civilization\\_spread\\_across\\_the\\_whole\\_galaxy](https://www.ted.com/talks/roey_tzezana_could_human_civilization_spread_across_the_whole_galaxy)

### All Words

#### IMPORTANT

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## Session 1: Word List

### eventually

*adv.* finally, particularly after a long time or a lot of struggle, complications, and so on

*synonym* : finally, someday, ultimately

(1) **eventually** become obsolete, (2) **eventually** succeed  
The corporation **eventually** dominated the entire tobacco business.

### galaxy

*n.* an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity

*synonym* : star cluster, nebula, star system

(1) elliptic **galaxy**, (2) a **galaxy** of famous actors  
The Milky Way **galaxy** has numerous water-bearing planets.

### 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.

### colony

*n.* a country or an area that is governed by a more powerful country that is often far away

*synonym* : settlement, territory, plantation

(1) plant a **colony**, (2) a **colony** of bacteria  
The **colony** declared its independence and became a republic.

### multitude

*n.* a large number of things or people  
*synonym*: mass, assembly, hive

(1) great **multitude**, (2) from a **multitude** of sources  
This company is faced with a **multitude** of problems.

### daunting

*adj.* looking challenging to manage in prospect; making someone anxious and less confident about carrying out something

*synonym*: intimidating, stunning, disheartening

(1) face the **daunting** reality, (2) seem like a **daunting** task  
My homework was **daunting** and complex, but it was also intriguing.

### light-year

*n.* a unit of distance used in astronomy to represent the distance that light travels in a year, which is equal to about 9.46 trillion kilometers or 5.88 trillion miles

(1) **light-year** distance, (2) billions of **light-years**

Proxima Centauri is the closest star to Earth, located about 4.24 **light-years** away.

### spacecraft

*n.* a vehicle designed to travel through space, typically carrying astronauts or scientific instruments

*synonym*: spaceship, satellite, probe

(1) **spacecraft** launch, (2) alien **spacecraft**

The human-crewed **spacecraft** successfully landed on the moon, fulfilling its mission.

### trudge

*v.* to walk or march slowly and heavily, typically due to exhaustion, difficulty, or reluctance; to move with effort or laboriously

*synonym*: plod, slog, hike

(1) **trudge** through mud, (2) **trudge** up the hill

The hiker **trudged** through the dense forest, chopping his way with a machete.

## survival

*n.* the state of continuing to exist or live, frequently in the face of difficulty or danger

*synonym*: endurance, continuity

(1) **survival** ability, (2) **survival** food

He evaluated his chances for **survival** rather pessimistically.

## gulf

*n.* a large ocean inlet or deep bay that is partially enclosed by land

*synonym*: chasm, divide, abyss

(1) **gulf** war, (2) **gulf** stream

The **Gulf** of Mexico is a body of water in the southern United States.

## enormous

*adj.* extremely large or great

*synonym*: huge, giant, gigantic

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

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

## sustainable

*adj.* able to continue or be continued for a long time

*synonym*: continuable, endurable, tolerable

(1) **sustainable** alternative fuel, (2) principles of **sustainable** development

The government should do more to support environmentally **sustainable** agriculture.

## scholar

*n.* professor; a person who studies a topic in considerable depth, particularly in a university

*synonym*: professor, pupil, learner

(1) **scholar** in international politics, (2) noted **scholar**

You won't have to pay college tuition if you're a **scholar**.

## theoretical

*adj.* relating to the concepts and principles upon which a particular topic is founded, rather than practice and

experience

*synonym*: conceptual, conjectural, ideal

(1) **theoretical** models, (2) **theoretical** physicist

Absolute zero is the lowest **theoretical** temperature.

## physics

*n.* the science of matter and energy and their interactions

(1) nuclear **physics**, (2) laws of **physics**

He studied the **physics** of radiation.

## mathematics

*n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement

*synonym*: arithmetic, calculation, calculus

(1) a good grounding in **mathematics**, (2) **mathematics** competition

He has a flair for **mathematics**.

## replicate

*v.* to make an exact copy of something; to repeat a process or experiment to confirm the results

*synonym*: duplicate, imitate, reproduce

(1) **replicate** the cell, (2) **replicate** data

The experiment was **replicated** several times to ensure accuracy.

## context

*n.* the circumstances, facts, or conditions that surround a particular event, situation, or statement and that give it meaning

*synonym*: background, setting, environment

(1) historical **context**, (2) legal **context**

It's important to understand the **context** of a situation before making a decision.

## launch

*v.* to send or propel something into the air or space using a device such as a rocket, missile, or spacecraft; to make something available or on sale for the first time

*synonym*: start, initiate, begin

(1) **launch** a spaceship into orbit, (2) **launch** a big attack

The company is set to **launch** its new product line next month.

## self-sufficient

*adj.* able to provide for one's own needs without assistance from others

*synonym*: independent, self-reliant, self-sustaining

(1) **self-sufficient** economy, (2) **self-sufficient** renewable energy

He was determined to become **self-sufficient** and not rely on anyone else.

## distant

*adj.* far away in space, time, or where you are; far apart in relevance, relationship, or kinship

*synonym*: far, isolated, remote

(1) a **distant** memory, (2) **distant** ancestors

The sun set over the crest of **distant** hills.

## harvest

*n.* yields of plants in a single growing season; the period of the year when gathering occurs on a farm

*synonym*: crop, reaping, yield

(1) a scanty **harvest**, (2) reap a **harvest**

During **harvest**, farmers are incredibly busy.

## replica

*n.* an exact copy of something such as a work of art

*synonym*: imitation, reproduction, replication

(1) miniature **replica**, (2) exact **replica**

An artist sculpted a full-size **replica** of her body.

## probe

*n.* a tool used for testing or examining, especially for medical or scientific purposes, or an exploratory mission to a planet or other celestial body; (verb) to investigate, examine, or search into something

*synonym*: investigation, inquiry, examination

(1) a lunar **probe**, (2) **probe** for inside information

NASA sent a **probe** to study the atmosphere of Jupiter.

## outward

*adj.* relating to the external appearance or surface of something; visible

*synonym* : external, surface, exterior

(1) an **outward** journey, (2) **outward** cheerfulness

The **outward** appearance of the building was impressive, but the inside was in dire need of repairs.

## universe

*n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy

*synonym* : cosmos, macrocosm

(1) theory of the **universe**, (2) expansion of the **universe**

The **universe** is about 13.8 billion years old.

## fishbowl

*n.* a round glass or plastic container used for keeping fish or other aquatic animals as pets

*synonym* : fish tank, aquarium

(1) **fishbowl** effect, (2) empty **fishbowl**

The goldfish in the **fishbowl** looked happy and healthy.

## crunch

*n.* a loud, crackling noise made by something being crushed or broken; a difficult or critical situation

*synonym* : crushing, snapping, crisis

(1) financial **crunch**, (2) a gas **crunch**

The **crunch** of the leaves underfoot was heard as they walked through the park.

## cosmic

*adj.* relating to the universe or cosmos; vast or limitless

*synonym* : astronomical, celestial, outer-space

(1) second **cosmic** velocity, (2) **cosmic** background radiation

**Cosmic** rays are high-energy particles that originate from outside the solar system.

## 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.

## equivalent

*n.* having the same value, quality, meaning, purpose, etc.  
*synonym*: equal, counterpart, match

(1) **equivalent** amounts, (2) **equivalent** in meaning

The European Central Bank is Europe's **equivalent** of the Federal Reserve.

## advance

*v.* to go or move forward; to develop in a positive way  
*synonym*: progress, boost, come along

(1) **advance** the technology, (2) **advance** a cooperative relationship

Scientific knowledge will **advance** significantly with the power of AI.

## intelligence

*n.* the ability to learn, comprehend, or make judgments or conclusions based on reasons

*synonym*: brains, brightness, cleverness

(1) an **intelligence** test, (2) field of artificial **intelligence**

In terms of **intelligence**, he was head and shoulders above his classmates.

## miniature

*adj.* being on a very small scale

*synonym*: mini, scaled-down, pint-sized

(1) **miniature** camera, (2) **miniature** version

He did complicated pen-and-ink drawings like medieval **miniatures**.

## propulsion

*n.* the act or process of propelling or driving something forward, often using a motor, engine, or other mechanical means

*synonym*: propelling, driving, actuation

(1) **propulsion** technology, (2) nuclear **propulsion**

The spacecraft's **propulsion** system helped it travel through space.

## technological

*adj.* based on scientific and industrial progress

*synonym* : specialized, technical

(1) **technological** advancement, (2) **technological** policy  
**Technological** advances have disrupted many industries.

## leap

*v.* to jump or spring into the air, often with the feet leaving the ground or a surface below; to move quickly or suddenly, often forward or upward

*synonym* : jump, bound, hop

(1) **leap** to a conclusion, (2) **leap** of faith

The athlete was able to **leap** over the hurdle with ease.

## 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.

## 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.

## regardless

*adv.* not paying attention or considering something or someone even if the situation is bad or there are difficulties

*synonym* : anyhow, nevertheless, still

(1) **regardless** of the difficulties, (2) **regardless** tread

People can pick out superior products **regardless** of the quality of the advertising.



## alien

*n.* a person who comes from a different country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere

*synonym*: foreigner, unfamiliar, unknown

(1) **alien** fungi, (2) resident **aliens**

**Alien** species have drastically altered the ecosystem in this area.

## multiply

*v.* to add a number to itself a specified number of times; to increase or cause to increase very much in number or quantity

*synonym*: boost, amplify, reproduce

(1) **multiply** 5 and 6, (2) **multiply** about hundredfold

**Multiply** a number by itself twice.

## 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.

## astronomer

*n.* a physicist who studies astronomy

*synonym*: stargazer, cosmologist, astrophysicist

(1) amateur **astronomer**, (2) solar **astronomer**

This question has fascinated solar **astronomers** for decades.

## intelligent

*adj.* having the capacity for thought and reason, especially to a high degree

*synonym*: brilliant, clever, competent

(1) an **intelligent** person, (2) **intelligent** assisting system

**Intelligent** robots that can cooperate with humans have limited motor output for safety.

## hurtle

*v.* to move quickly and forcefully, especially in an uncontrolled or dangerous way

*synonym*: throw, hurl, fling

(1) **hurtle** into a tunnel, (2) **hurtle** through life  
The car **hurtled** down the highway at breakneck speed.

## scavenge

*v.* to search for or gather useful material, particularly food or other resources, from discarded waste or other sources

*synonym*: search, scrounge, rummage

(1) **scavenge** for food, (2) **scavenge** for iron scraps

The raccoon **scavenged** through the garbage cans in search of food.

## absence

*n.* the fact or condition of being away from a place where they are typically anticipated to be

*synonym*: dearth, scarcity, lack

(1) **absence** from work, (2) a leave of **absence**

Another critical factor of child poverty is the father's **absence**.

## proof

*n.* a fact or piece of information that shows something is true or exists

*synonym*: testimony, evidence, assurance

(1) documentary **proof**, (2) a geometric **proof**

**Proof** is better than argument.

## extinct

*adj.* no longer in existence

*synonym*: dead, obsolete, abolished

(1) **extinct** by human activity, (2) long- **extinct** volcano

Many species have become **extinct** due to habitat destruction and other human activities.

## 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.

## fiction

*n.* the type of book or story, especially novels, that describes imaginary events and people; anything made up or imagined that is not true

*synonym*: fantasy, fable, invention

(1) stuff of science **fiction**, (2) non- **fiction** bestseller

Truth is stranger than **fiction**.

## proliferate

*v.* to grow or increase rapidly in number; to reproduce or spread rapidly, especially in an uncontrolled manner

*synonym*: multiply, spread, propagate

(1) **proliferate** cells, (2) **proliferate** weeds

The number of COVID cases continued to **proliferate** in many countries worldwide.

## simultaneously

*adv.* at the same time

*synonym*: concurrently, coincidentally, together

(1) **simultaneously** affected, (2) take several inputs

**simultaneously**

Two students answered the teacher's question

**simultaneously**.

## greet

*v.* to say hello to someone; to express welcome on meeting someone

*synonym*: welcome, salute, acknowledge

(1) **greet** a customer, (2) **greet** an idea

He **greeted** his friends with a warm smile and a hug.

## locate

*v.* to specify or determine the exact position of someone or something

*synonym*: discover, find, place

(1) **locate** a missing pet, (2) **locate** a tumor

The robot can accurately **locate** construction material.

## destroy

*v.* to ruin or damage severely or completely; to eradicate or eliminate completely

*synonym* : demolish, ruin, obliterate

(1) **destroy** the ecosystem, (2) **destroyed** evidence

The building was **destroyed** in the fire and had to be rebuilt.

## threat

*n.* a strong indication or likelihood of harm, danger, or adverse consequences; an expression of intent to inflict harm or injury on someone or something, often made as a means of coercion or intimidation

*synonym* : menace, danger, hazard

(1) economic **threat**, (2) environmental **threat**

The **threat** of severe weather prompted the city to issue an evacuation warning.

## lung

*n.* either of the two organs in the chest that people and some animals use for breathing

(1) **lung** capacity, (2) do **lung** transplantation

He has terminal **lung** cancer.

## sophistication

*n.* the quality or state of having a great deal of worldly experience; the quality or state of being intellectually or culturally refined

*synonym* : refinement, culture, elegance

(1) cultural **sophistication**, (2) linguistic **sophistication**

The new technology added a level of **sophistication** to the manufacturing process.

## curiosity

*n.* a strong desire to know or learn about something

*synonym* : interest, inquisitiveness, novelty

(1) boundless **curiosity**, (2) satisfy my intellectual **curiosity**

We are motivated by **curiosity** rather than necessity.

## Session 2: Spelling

1. ou\_\_\_\_d cheerfulness *adj.* relating to the external appearance or surface of something; visible
2. ad\_\_\_\_e a cooperative relationship *v.* to go or move forward; to develop in a positive way
3. sc\_\_\_\_ge for food *v.* to search for or gather useful material, particularly food or other resources, from discarded waste or other sources
4. satisfy my intellectual cu\_\_\_\_ty *n.* a strong desire to know or learn about something
5. reg\_\_\_\_ss tread *adv.* not paying attention or considering something or someone even if the situation is bad or there are difficulties
6. exact re\_\_\_\_a *n.* an exact copy of something such as a work of art
7. la\_\_\_\_h a big attack *v.* to send or propel something into the air or space using a device such as a rocket, missile, or spacecraft; to make something available or on sale for the first time
8. la\_\_\_\_h a spaceship into orbit *v.* to send or propel something into the air or space using a device such as a rocket, missile, or spacecraft; to make something available or on sale for the first time
9. have ge\_\_\_\_c testing *adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes

ANSWERS: 1. outward, 2. advance, 3. scavenge, 4. curiosity, 5. regardless, 6. replica, 7. launch, 8. launch, 9. genetic

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|--|---|
| 10. nuclear ph_____s                     | <i>n.</i> the science of matter and energy and their interactions   |
| 11. do I__g transplantation              | <i>n.</i> either of the two organs in the chest that people and some animals use for breathing  |
| 12. I__p to a conclusion                 | <i>v.</i> to jump or spring into the air, often with the feet leaving the ground or a surface below; to move quickly or suddenly, often forward or upward |
| 13. stuff of science fi_____n            | <i>n.</i> the type of book or story, especially novels, that describes imaginary events and people; anything made up or imagined that is not true         |
| 14. nuclear pro_____on                   | <i>n.</i> the act or process of propelling or driving something forward, often using a motor, engine, or other mechanical means                           |
| 15. mat_____cs competition               | <i>n.</i> the science dealing with the logic of quantities, shapes, spaces, and arrangement   |
| 16. eve_____ly succeed                   | <i>adv.</i> finally, particularly after a long time or a lot of struggle, complications, and so on  |
| 17. equ_____nt in meaning                | <i>n.</i> having the same value, quality, meaning, purpose, etc.  |
| 18. re_____te the cell                   | <i>v.</i> to make an exact copy of something; to repeat a process or experiment to confirm the results  |
| 19. principles of sus_____le development | <i>adj.</i> able to continue or be continued for a long time  |

ANSWERS: 10. physics, 11. lung, 12. leap, 13. fiction, 14. propulsion, 15. mathematics, 16. eventually, 17. equivalent, 18. replicate, 19. sustainable

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|-----------------------------------|---|
| 20. tec_____cal advancement       | <i>adj.</i> based on scientific and industrial progress   |
| 21. a ga___y of famous actors     | <i>n.</i> an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity        |
| 22. second co___c velocity        | <i>adj.</i> relating to the universe or cosmos; vast or limitless   |
| 23. long-ex_____t volcano         | <i>adj.</i> no longer in existence  |
| 24. a co___y of bacteria          | <i>n.</i> a country or an area that is governed by a more powerful country that is often far away                               |
| 25. en_____us amount              | <i>adj.</i> extremely large or great  |
| 26. hu___e into a tunnel          | <i>v.</i> to move quickly and forcefully, especially in an uncontrolled or dangerous way  |
| 27. pro_____on technology         | <i>n.</i> the act or process of propelling or driving something forward, often using a motor, engine, or other mechanical means |
| 28. inc_____ly cheerful character | <i>adv.</i> in a way that is very difficult to believe; exceedingly or extremely  |
| 29. spa_____ft launch             | <i>n.</i> a vehicle designed to travel through space, typically carrying astronauts or scientific instruments                   |
| 30. boundless cu_____ty           | <i>n.</i> a strong desire to know or learn about something  |
| 31. sc_____ge for iron scraps     | <i>v.</i> to search for or gather useful material, particularly food or other resources, from discarded waste or other sources  |

ANSWERS: 20. technological, 21. galaxy, 22. cosmic, 23. extinct, 24. colony, 25. enormous, 26. hurtle, 27. propulsion, 28. incredibly, 29. spacecraft, 30. curiosity, 31. scavenge

32. pro\_\_\_\_\_te cells *v.* to grow or increase rapidly in number; to reproduce or spread rapidly, especially in an uncontrolled manner
33. alien spa\_\_\_\_\_ft *n.* a vehicle designed to travel through space, typically carrying astronauts or scientific instruments
34. expansion of the un\_\_\_\_\_se *n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
35. reg\_\_\_\_\_ss of the difficulties *adv.* not paying attention or considering something or someone even if the situation is bad or there are difficulties
36. empty fi\_\_\_\_\_wl *n.* a round glass or plastic container used for keeping fish or other aquatic animals as pets
37. face the da\_\_\_\_\_ng reality *adj.* looking challenging to manage in prospect; making someone anxious and less confident about carrying out something
38. su\_\_\_\_\_al food *n.* the state of continuing to exist or live, frequently in the face of difficulty or danger
39. int\_\_\_\_\_nt assisting system *adj.* having the capacity for thought and reason, especially to a high degree
40. sim\_\_\_\_\_sly affected *adv.* at the same time
41. lo\_\_\_\_\_e a tumor *v.* to specify or determine the exact position of someone or something
42. billions of lig\_\_\_\_\_ars *n.* a unit of distance used in astronomy to represent the distance that light travels in a year, which is equal to about 9.46 trillion kilometers or 5.88 trillion miles

ANSWERS: 32. proliferate, 33. spacecraft, 34. universe, 35. regardless, 36. fishbowl, 37. daunting, 38. survival, 39. intelligent, 40. simultaneously, 41. locate, 42. light-year



43. 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
44. historical co\_\_\_\_\_t *n.* the circumstances, facts, or conditions that surround a particular event, situation, or statement and that give it meaning
45. a good grounding in mat\_\_\_\_\_cs *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
46. mu\_\_\_\_\_ly about hundredfold *v.* to add a number to itself a specified number of times; to increase or cause to increase very much in number or quantity
47. take several inputs sim\_\_\_\_\_sly *adv.* at the same time
48. reap a ha\_\_\_\_\_t *n.* yields of plants in a single growing season; the period of the year when gathering occurs on a farm
49. ex\_\_\_\_\_t by human activity *adj.* no longer in existence
50. great mu\_\_\_\_\_de *n.* a large number of things or people
51. financial cr\_\_\_h *n.* a loud, crackling noise made by something being crushed or broken; a difficult or critical situation
52. laws of ph\_\_\_\_\_s *n.* the science of matter and energy and their interactions
53. resident al\_\_ns *n.* a person who comes from a different country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere

ANSWERS: 43. planet, 44. context, 45. mathematics, 46. multiply, 47. simultaneously, 48. harvest, 49. extinct, 50. multitude, 51. crunch, 52. physics, 53. alien

54. from a mu\_\_\_\_\_de of sources *n.* a large number of things or people
55. lo\_\_\_e a missing pet *v.* to specify or determine the exact position of someone or something
56. documentary pr\_\_\_f *n.* a fact or piece of information that shows something is true or exists
57. economic th\_\_\_t *n.* a strong indication or likelihood of harm, danger, or adverse consequences; an expression of intent to inflict harm or injury on someone or something, often made as a means of coercion or intimidation
58. locust sw\_\_\_m *n.* a group of many things, such as insects, fishes, etc., in the air or water or on the ground
59. a geometric pr\_\_\_f *n.* a fact or piece of information that shows something is true or exists
60. noted sc\_\_\_\_\_r *n.* professor; a person who studies a topic in considerable depth, particularly in a university
61. mu\_\_\_\_\_ly 5 and 6 *v.* to add a number to itself a specified number of times; to increase or cause to increase very much in number or quantity
62. a lunar pr\_\_\_e *n.* a tool used for testing or examining, especially for medical or scientific purposes, or an exploratory mission to a planet or other celestial body; (verb) to investigate, examine, or search into something

ANSWERS: 54. multitude, 55. locate, 56. proof, 57. threat, 58. swarm, 59. proof, 60. scholar, 61. multiply, 62. probe

63. a di\_\_\_\_t memory *adj.* far away in space, time, or where you are; far apart in relevance, relationship, or kinship
64. co\_\_\_\_c background radiation *adj.* relating to the universe or cosmos; vast or limitless
65. eve\_\_\_\_ly become obsolete *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
66. tr\_\_\_\_e through mud *v.* to walk or march slowly and heavily, typically due to exhaustion, difficulty, or reluctance; to move with effort or laboriously
67. 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
68. plant a co\_\_\_\_y *n.* a country or an area that is governed by a more powerful country that is often far away
69. theory of the un\_\_\_\_se *n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
70. equ\_\_\_\_nt amounts *n.* having the same value, quality, meaning, purpose, etc.
71. sus\_\_\_\_le alternative fuel *adj.* able to continue or be continued for a long time
72. a leave of ab\_\_\_\_e *n.* the fact or condition of being away from a place where they are typically anticipated to be
73. sel\_\_\_\_ent economy *adj.* able to provide for one's own needs without assistance from others

ANSWERS: 63. distant, 64. cosmic, 65. eventually, 66. trudge, 67. swarm, 68. colony, 69. universe, 70. equivalent, 71. sustainable, 72. absence, 73. self-sufficient

74. an int\_\_\_\_\_nt person      *adj.* having the capacity for thought and reason, especially to a high degree
75. di\_\_\_\_\_t ancestors      *adj.* far away in space, time, or where you are; far apart in relevance, relationship, or kinship
76. tec\_\_\_\_\_cal policy      *adj.* based on scientific and industrial progress
77. ab\_\_\_\_\_e from work      *n.* the fact or condition of being away from a place where they are typically anticipated to be
78. cultural sop\_\_\_\_\_ion      *n.* the quality or state of having a great deal of worldly experience; the quality or state of being intellectually or culturally refined
79. mi\_\_\_\_\_re version      *adj.* being on a very small scale
80. gr\_\_t an idea      *v.* to say hello to someone; to express welcome on meeting someone
81. non-fi\_\_\_\_\_n bestseller      *n.* the type of book or story, especially novels, that describes imaginary events and people; anything made up or imagined that is not true
82. an ou\_\_\_\_\_d journey      *adj.* relating to the external appearance or surface of something; visible
83. de\_\_\_\_\_p a strategy      *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

ANSWERS: 74. intelligent, 75. distant, 76. technological, 77. absence, 78. sophistication, 79. miniature, 80. greet, 81. fiction, 82. outward, 83. develop

84. miniature re\_\_\_\_a *n.* an exact copy of something such as a work of art
85. sc\_\_\_\_r in international politics *n.* professor; a person who studies a topic in considerable depth, particularly in a university
86. lig\_\_\_\_\_ar distance *n.* a unit of distance used in astronomy to represent the distance that light travels in a year, which is equal to about 9.46 trillion kilometers or 5.88 trillion miles
87. al\_\_n fungi *n.* a person who comes from a different country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere
88. evolutionary bi\_\_\_\_y *n.* the scientific study of life and the natural processes of living things
89. re\_\_\_\_\_te data *v.* to make an exact copy of something; to repeat a process or experiment to confirm the results
90. g\_\_f war *n.* a large ocean inlet or deep bay that is partially enclosed by land
91. legal co\_\_\_\_t *n.* the circumstances, facts, or conditions that surround a particular event, situation, or statement and that give it meaning
92. a gas cr\_\_\_h *n.* a loud, crackling noise made by something being crushed or broken; a difficult or critical situation
93. solar ast\_\_\_\_\_er *n.* a physicist who studies astronomy
94. cell and molecular bi\_\_\_\_y *n.* the scientific study of life and the natural processes of living things

ANSWERS: 84. replica, 85. scholar, 86. light-year, 87. alien, 88. biology, 89. replicate, 90. gulf, 91. context, 92. crunch, 93. astronomer, 94. biology

95. sel\_\_\_\_\_ent renewable energy     *adj.* able to provide for one's own needs without assistance from others
96. a scanty ha\_\_\_\_\_t     *n.* yields of plants in a single growing season; the period of the year when gathering occurs on a farm
97. mi\_\_\_\_\_re camera     *adj.* being on a very small scale
98. 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
99. the\_\_\_\_\_al physicist     *adj.* relating to the concepts and principles upon which a particular topic is founded, rather than practice and experience
100. g\_\_f stream     *n.* a large ocean inlet or deep bay that is partially enclosed by land
101. amateur ast\_\_\_\_\_er     *n.* a physicist who studies astronomy
102. gr\_\_t a customer     *v.* to say hello to someone; to express welcome on meeting someone
103. de\_\_\_\_\_yed evidence     *v.* to ruin or damage severely or completely; to eradicate or eliminate completely
104. linguistic sop\_\_\_\_\_ion     *n.* the quality or state of having a great deal of worldly experience; the quality or state of being intellectually or culturally refined

ANSWERS: 95. self-sufficient, 96. harvest, 97. miniature, 98. develop, 99. theoretical, 100. gulf, 101. astronomer, 102. greet, 103. destroy, 104. sophistication

105. ad\_\_\_\_\_e the technology *v.* to go or move forward; to develop in a positive way
106. de\_\_\_\_\_y the ecosystem *v.* to ruin or damage severely or completely; to eradicate or eliminate completely
107. the\_\_\_\_\_al models *adj.* relating to the concepts and principles upon which a particular topic is founded, rather than practice and experience
108. field of artificial int\_\_\_\_\_nce *n.* the ability to learn, comprehend, or make judgments or conclusions based on reasons
109. get inc\_\_\_\_\_ly insecure *adv.* in a way that is very difficult to believe; exceedingly or extremely
110. pr\_\_e for inside information *n.* a tool used for testing or examining, especially for medical or scientific purposes, or an exploratory mission to a planet or other celestial body; (verb) to investigate, examine, or search into something
111. a ge\_\_\_\_\_c disorder *adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes
112. hu\_\_\_e through life *v.* to move quickly and forcefully, especially in an uncontrolled or dangerous way
113. en\_\_\_\_\_us potential *adj.* extremely large or great
114. seem like a da\_\_\_\_\_ng task *adj.* looking challenging to manage in prospect; making someone anxious and less confident about carrying out something

ANSWERS: 105. advance, 106. destroy, 107. theoretical, 108. intelligence, 109. incredibly, 110. probe, 111. genetic, 112. hurtle, 113. enormous, 114. daunting

115. 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
116. environmental th\_\_\_t *n.* a strong indication or likelihood of harm, danger, or adverse consequences; an expression of intent to inflict harm or injury on someone or something, often made as a means of coercion or intimidation
117. l\_\_\_g capacity *n.* either of the two organs in the chest that people and some animals use for breathing
118. l\_\_\_p of faith *v.* to jump or spring into the air, often with the feet leaving the ground or a surface below; to move quickly or suddenly, often forward or upward
119. elliptic ga\_\_\_y *n.* an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity
120. fi\_\_\_\_\_wl effect *n.* a round glass or plastic container used for keeping fish or other aquatic animals as pets
121. su\_\_\_\_\_al ability *n.* the state of continuing to exist or live, frequently in the face of difficulty or danger
122. pro\_\_\_\_\_te weeds *v.* to grow or increase rapidly in number; to reproduce or spread rapidly, especially in an uncontrolled manner
123. an int\_\_\_\_\_nce test *n.* the ability to learn, comprehend, or make judgments or conclusions based on reasons

ANSWERS: 115. planet, 116. threat, 117. lung, 118. leap, 119. galaxy, 120. fishbowl, 121. survival, 122. proliferate, 123. intelligence



124. tr\_\_\_e up the hill

v. to walk or march slowly and heavily, typically due to exhaustion, difficulty, or reluctance; to move with effort or laboriously

ANSWERS: 124. trudge

## Session 3: Fill in the Blanks

1. The spacecraft's \_\_\_\_\_ system helped it travel through space.  
*n.* the act or process of propelling or driving something forward, often using a motor, engine, or other mechanical means
2. Truth is stranger than \_\_\_\_\_.  
*n.* the type of book or story, especially novels, that describes imaginary events and people; anything made up or imagined that is not true
3. Scientific knowledge will \_\_\_\_\_ significantly with the power of AI.  
*v.* to go or move forward; to develop in a positive way
4. We are motivated by \_\_\_\_\_ rather than necessity.  
*n.* a strong desire to know or learn about something
5. Absolute zero is the lowest \_\_\_\_\_ temperature.  
*adj.* relating to the concepts and principles upon which a particular topic is founded, rather than practice and experience
6. The \_\_\_\_\_ appearance of the building was impressive, but the inside was in dire need of repairs.  
*adj.* relating to the external appearance or surface of something; visible
7. The company is set to \_\_\_\_\_ its new product line next month.  
*v.* to send or propel something into the air or space using a device such as a rocket, missile, or spacecraft; to make something available or on sale for the first time

ANSWERS: 1. propulsion, 2. fiction, 3. advance, 4. curiosity, 5. theoretical, 6. outward, 7. launch

8. The building was \_\_\_\_\_ in the fire and had to be rebuilt.  
*v.* to ruin or damage severely or completely; to eradicate or eliminate completely
9. The raccoon \_\_\_\_\_ through the garbage cans in search of food.  
*v.* to search for or gather useful material, particularly food or other resources, from discarded waste or other sources
10. In terms of \_\_\_\_\_ he was head and shoulders above his classmates.  
*n.* the ability to learn, comprehend, or make judgments or conclusions based on reasons
11. He evaluated his chances for \_\_\_\_\_ rather pessimistically.  
*n.* the state of continuing to exist or live, frequently in the face of difficulty or danger
12. The human-crewed \_\_\_\_\_ successfully landed on the moon, fulfilling its mission.  
*n.* a vehicle designed to travel through space, typically carrying astronauts or scientific instruments
13. The \_\_\_\_\_ of severe weather prompted the city to issue an evacuation warning.  
*n.* a strong indication or likelihood of harm, danger, or adverse consequences; an expression of intent to inflict harm or injury on someone or something, often made as a means of coercion or intimidation
14. \_\_\_\_\_ robots that can cooperate with humans have limited motor output for safety.  
*adj.* having the capacity for thought and reason, especially to a high degree
15. Many species have become \_\_\_\_\_ due to habitat destruction and other human activities.  
*adj.* no longer in existence

ANSWERS: 8. destroyed, 9. scavenged, 10. intelligence, 11. survival, 12. spacecraft, 13. threat, 14. Intelligent, 15. extinct

16. \_\_\_\_\_ advances have disrupted many industries.

*adj.* based on scientific and industrial progress

17. Several cities are experiencing \_\_\_\_\_ high unemployment rates.

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

18. People can pick out superior products \_\_\_\_\_ of the quality of the advertising.

*adv.* not paying attention or considering something or someone even if the situation is bad or there are difficulties

19. During \_\_\_\_\_ farmers are incredibly busy.

*n.* yields of plants in a single growing season; the period of the year when gathering occurs on a farm

20. The experiment was \_\_\_\_\_ several times to ensure accuracy.

*v.* to make an exact copy of something; to repeat a process or experiment to confirm the results

21. \_\_\_\_\_ rays are high-energy particles that originate from outside the solar system.

*adj.* relating to the universe or cosmos; vast or limitless

22. It's important to understand the \_\_\_\_\_ of a situation before making a decision.

*n.* the circumstances, facts, or conditions that surround a particular event, situation, or statement and that give it meaning

23. He studied the \_\_\_\_\_ of radiation.

*n.* the science of matter and energy and their interactions

ANSWERS: 16. Technological, 17. incredibly, 18. regardless, 19. harvest, 20. replicated, 21. Cosmic, 22. context, 23. physics

24. This question has fascinated solar \_\_\_\_\_ for decades.  
*n.* a physicist who studies astronomy
25. 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
26. 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
27. Proxima Centauri is the closest star to Earth, located about 4.24 \_\_\_\_\_ away.  
*n.* a unit of distance used in astronomy to represent the distance that light travels in a year, which is equal to about 9.46 trillion kilometers or 5.88 trillion miles
28. He has terminal \_\_\_\_\_ cancer.  
*n.* either of the two organs in the chest that people and some animals use for breathing
29. He \_\_\_\_\_ his friends with a warm smile and a hug.  
*v.* to say hello to someone; to express welcome on meeting someone
30. Another critical factor of child poverty is the father's \_\_\_\_\_.  
*n.* the fact or condition of being away from a place where they are typically anticipated to be
31. He was determined to become \_\_\_\_\_ and not rely on anyone else.  
*adj.* able to provide for one's own needs without assistance from others

ANSWERS: 24. astronomers, 25. planet, 26. develop, 27. light-years, 28. lung, 29. greeted, 30. absence, 31. self-sufficient

32. The car \_\_\_\_\_ down the highway at breakneck speed.  
*v.* to move quickly and forcefully, especially in an uncontrolled or dangerous way
33. My homework was \_\_\_\_\_ and complex, but it was also intriguing.  
*adj.* looking challenging to manage in prospect; making someone anxious and less confident about carrying out something
34. The \_\_\_\_\_ is about 13.8 billion years old.  
*n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
35. The Milky Way \_\_\_\_\_ has numerous water-bearing planets.  
*n.* an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity
36. This company is faced with a \_\_\_\_\_ of problems.  
*n.* a large number of things or people
37. He has a flair for \_\_\_\_\_.  
*n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
38. The number of COVID cases continued to \_\_\_\_\_ in many countries worldwide.  
*v.* to grow or increase rapidly in number; to reproduce or spread rapidly, especially in an uncontrolled manner
39. The European Central Bank is Europe's \_\_\_\_\_ of the Federal Reserve.  
*n.* having the same value, quality, meaning, purpose, etc.

ANSWERS: 32. hurtled, 33. daunting, 34. universe, 35. galaxy, 36. multitude, 37. mathematics, 38. proliferate, 39. equivalent

40. The new technology added a level of \_\_\_\_\_ to the manufacturing process.
- n.* the quality or state of having a great deal of worldly experience; the quality or state of being intellectually or culturally refined
41. The \_\_\_\_\_ declared its independence and became a republic.
- n.* a country or an area that is governed by a more powerful country that is often far away
42. The goldfish in the \_\_\_\_\_ looked happy and healthy.
- n.* a round glass or plastic container used for keeping fish or other aquatic animals as pets
43. He did complicated pen-and-ink drawings like medieval \_\_\_\_\_.
- adj.* being on a very small scale
44. You won't have to pay college tuition if you're a \_\_\_\_\_.
- n.* professor; a person who studies a topic in considerable depth, particularly in a university
45. Shakespeare's output of poetry was \_\_\_\_\_.
- adj.* extremely large or great
46. 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
47. \_\_\_\_\_ a number by itself twice.
- v.* to add a number to itself a specified number of times; to increase or cause to increase very much in number or quantity

ANSWERS: 40. sophistication, 41. colony, 42. fishbowl, 43. miniatures, 44. scholar, 45. enormous, 46. swarm, 47. Multiply

48. NASA sent a \_\_\_\_\_ to study the atmosphere of Jupiter.

- n.* a tool used for testing or examining, especially for medical or scientific purposes, or an exploratory mission to a planet or other celestial body; (verb) to investigate, examine, or search into something

49. The athlete was able to \_\_\_\_\_ over the hurdle with ease.

- v.* to jump or spring into the air, often with the feet leaving the ground or a surface below; to move quickly or suddenly, often forward or upward

50. Two students answered the teacher's question \_\_\_\_\_.

- adv.* at the same time

51. The \_\_\_\_\_ of the leaves underfoot was heard as they walked through the park.

- n.* a loud, crackling noise made by something being crushed or broken; a difficult or critical situation

52. The robot can accurately \_\_\_\_\_ construction material.

- v.* to specify or determine the exact position of someone or something

53. The government should do more to support environmentally \_\_\_\_\_ agriculture.

- adj.* able to continue or be continued for a long time

54. The hiker \_\_\_\_\_ through the dense forest, chopping his way with a machete.

- v.* to walk or march slowly and heavily, typically due to exhaustion, difficulty, or reluctance; to move with effort or laboriously

55. An artist sculpted a full-size \_\_\_\_\_ of her body.

- n.* an exact copy of something such as a work of art

ANSWERS: 48. probe, 49. leap, 50. simultaneously, 51. crunch, 52. locate, 53. sustainable, 54. trudged, 55. replica



56. The \_\_\_\_\_ of Mexico is a body of water in the southern United States.  
*n.* a large ocean inlet or deep bay that is partially enclosed by land
57. 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
58. 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
59. The corporation \_\_\_\_\_ dominated the entire tobacco business.  
*adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
60. \_\_\_\_\_ is better than argument.  
*n.* a fact or piece of information that shows something is true or exists
61. \_\_\_\_\_ species have drastically altered the ecosystem in this area.  
*n.* a person who comes from a different country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere
62. The sun set over the crest of \_\_\_\_\_ hills.  
*adj.* far away in space, time, or where you are; far apart in relevance, relationship, or kinship

ANSWERS: 56. Gulf, 57. biology, 58. genetic, 59. eventually, 60. Proof, 61. Alien, 62. distant