

# Englist.me



## Vocabulary Builder Reference from...

*Ariel Waldman: The invisible life hidden beneath*

*Antarctica's ice | TED Talk*

[https://www.ted.com/talks/ariel\\_waldman\\_the\\_invisible\\_life\\_hidden\\_beneath\\_antarctica\\_s\\_ice](https://www.ted.com/talks/ariel_waldman_the_invisible_life_hidden_beneath_antarctica_s_ice)

### Advanced Words Only

#### IMPORTANT

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## Session 1: Word List

### astronaut

*n.* a person trained by a space agency to travel outside the Earth's atmosphere

*synonym* : spaceman, cosmonaut

(1) **astronaut** mission, (2) **astronaut** in training

The shuttle **astronaut** trained for months before embarking on the space mission.

### faraway

*adj.* located at a geographically distant place; remote or separated by distance; distant or not easily accessible

*synonym* : distant, remote, far-off

(1) **faraway** land, (2) **faraway** dream

The view from the **faraway** hilltop was breathtakingly beautiful.

### exoplanet

*n.* a planet that orbits a star outside of the solar system

(1) the closest **exoplanet** to Earth, (2) **exoplanet** mission

The **exoplanet** Kepler-186f is located 500 light-years from Earth and is believed to be habitable.

### diatom

*n.* a type of single-celled algae that is characterized by its ornate and intricate silica shells, which form a distinctive pattern or design when viewed under a microscope

*synonym* : algae, phytoplankton

(1) **diatom** species, (2) freshwater **diatoms**

**Diatom** fossils can tell us a lot about the history and environment of the oceans.

## photosynthesis

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

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

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

## algae

*n.* A simple plant that grows in or near water and lacks typical leaves and roots

(1) **algae** biofuel, (2) blue **algae**

**Algae** has jammed the inlet to the water turbine.

## intricately

*adv.* in a manner that involves a lot of detailed and complex arrangement or planning; with many interconnected parts or components

*synonym*: complexly, elaborately

(1) **intricately** woven, (2) **intricately** decorated

The watch was **intricately** designed, with many small moving parts.

## sculpt

*v.* to create a work of art by carving, casting, or other shaping techniques

*synonym*: carve, mold, shape

(1) **sculpt** an image, (2) **sculpt** prototype

He spent hours every day **sculpting** figures out of clay.

## exoskeleton

*n.* a hard, external protective covering or framework that supports and gives shape to the body of an invertebrate animal, such as an insect or crab

*synonym*: chitin, exocuticle, carapace

(1) **exoskeleton** suit, (2) robotic **exoskeleton**

The **exoskeleton** of the crab protects it from predators and environmental changes.

### swirl

*v.* to move in a circular or spiral pattern

*synonym* : spin, whirl, turn

(1) **swirl** the wine, (2) **swirl** up dirt and dust

The chef expertly **swirled** the sauce onto the plate.

### sequester

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

*synonym* : isolate, set apart, segregate

(1) **sequester** ten percent of the annual carbon emissions,

(2) **sequester** myself from the world

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

### lifeless

*adj.* without life; dead

*synonym* : inanimate, inert, motionless

(1) fall **lifeless**, (2) a **lifeless** corpse

The plant had a **lifeless** appearance, indicating that it was not getting enough water.

### penguin

*n.* a flightless sea bird that is found in the Southern Hemisphere and is known for its distinctive black and white coloring and its upright, waddling gait

(1) Adelie **penguin**, (2) **penguin** habitat

We took a boat tour to witness the magnificent **penguin** colony along the rugged coastline.

### lurk

*v.* to wait somewhere secretly, especially because you are about to attack someone or do something bad or illegal

*synonym* : hide, creep, stalk

(1) **lurked** behind the words, (2) **lurk** in the darkness

In the city, the risk of traffic accidents **lurks** at every corner.

### 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.

## glacier

*n.* a slowly moving mass of ice formed from snow on mountains or near the North Pole or the South Pole

*synonym*: iceberg, ice floe

(1) **glacier** retreat, (2) **glaciers** move tardily

The **glaciers** of the ice age have shaped Fjord.

## glacial

*adj.* relating to or resembling a glacier (= a slowly moving mass of ice) or the process of glaciation; characterized by an extremely slow or gradual pace or movement

*synonym*: cold, icy, frozen

(1) **glacial** movements, (2) **glacial** terrain

The **glacial** pace of the negotiations frustrated both parties.

## charismatic

*adj.* having a strong and magnetic personality that attracts and influences others

*synonym*: mesmerizing, alluring, captivating

(1) **charismatic** chairman, (2) **charismatic** personality

He was a **charismatic** leader and could persuade others to follow his ideas.

## megafauna

*n.* a term used to describe large animals that lived during the Pleistocene epoch, such as mammoths, mastodons, and saber-toothed tigers, and that are now extinct

*synonym*: large animals, large mammals

(1) **megafauna** extinction, (2) **megafauna** fossils

Many prehistoric **megafaunas**, such as mammoths and saber-toothed tigers, are now extinct.

## compel

*v.* to force or require someone to do something; to exert a strong, irresistible force or pressure that makes someone act in a certain way

*synonym*: force, oblige, coerce

(1) **compel** a person to submission, (2) **compel** attention  
The strict deadlines will **compel** the team to work efficiently.

## filmmaker

*n.* a person who makes films, typically as a profession  
*synonym*: director, producer, cinematographer

(1) non-fiction **filmmaker**, (2) a successful **filmmaker**  
The renowned **filmmaker** won several awards for his latest film.

## microscopic

*adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy

*synonym*: infinitesimal, tiny, atomic

(1) **microscopic** inquiry, (2) **microscopic** analysis  
Inspectors noticed **microscopic** cracks in the submarine's hull.

## extremophile

*n.* a type of organism, typically a microbe, that can survive and thrive in extreme or harsh environments that would be inhospitable to most other forms of life, such as high heat, acidity, radiation, or pressure

(1) **extremophile** adaptations, (2) **extremophile** habitat  
**Extremophile** bacteria can survive in extreme heat, cold, and radiation.

## seafloor

*n.* the bottom of the ocean  
*synonym*: ocean floor, benthic zone, abyssal plain

(1) **seafloor** exploration, (2) **seafloor** mapping  
The oceanographer studied the **seafloor** topography to understand how it had changed over time.

## illuminate

*v.* to light something or to make something lighter or brighter; to make something free from confusion or ambiguity

*synonym*: brighten, light, adorn

(1) **illuminate** a dark hall, (2) **illuminate** my understanding  
That biologist **illuminated** the mechanism of heredity.

## **critter**

*n.* a small or unimportant creature or animal, often used in a familiar or affectionate way

*synonym* : animal, creature, beast

(1) cute **critter**, (2) wild **critter**

During their camping trip, the kids were excited to go **critter** hunting in the woods.

## **spurt**

*v.* to suddenly burst forth or flow out powerfully or suddenly; to make a sudden effort or increase in activity or energy

*synonym* : gush, surge, spew

(1) unexpectedly **spurt**, (2) **spurt** across the table

The water hose suddenly **spurred** out a strong jet of water.

## **rev**

*n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute

*synonym* : revolution, RPM, speed

(1) low- **rev** engine, (2) **rev** up the crowd

He stepped on the gas pedal, and the engine released a loud **rev**.

## **cryoconite**

*n.* fine sediment or debris that accumulates on the surface of glaciers or ice sheets, typically composed of rock particles, mineral dust, and organic matter; it can have an impact on the surface melting and the overall mass balance of the ice

*synonym* : sediment, dust, debris

(1) **cryoconite** hole, (2) **cryoconite** sediment

In Arctic regions, **cryoconite** particles can accelerate the melting of glaciers.

## **puck**

*n.* a small, hard rubber disc used in ice hockey and other related games; a mischievous or playful sprite or demon in folklore and mythology

*synonym* : disc, rubber

(1) hockey **puck**, (2) **puck** handling

The hockey player took a shot but missed the **puck** entirely.

## tardigrade

*n.* a microscopic, water-dwelling animal that is known for its resilience and ability to survive extreme conditions

*synonym*: water bear, moss piglet

(1) tiny **tardigrade**, (2) **tardigrade** research

Scientists have studied the resilience of the **tardigrade**, also known as a water bear.

## claw

*n.* a curved, pointed appendage found on the foot or leg of an animal, used for gripping or grasping; a human hand with long, narrow fingers that are curved like a claw; a machine or tool with a claw-like opening used for gripping or lifting objects

*synonym*: paw, talon, nail

(1) **claw** marks, (2) **claw** hammer

The bear used its **claw** to catch a fish in the river.

## superpower

*n.* a country or nation that has significant global influence or formidable military, economic, or technological strength; a supernatural ability or force capable of extraordinary feats or feats beyond normal human capabilities

*synonym*: great power, empire, hegemony

(1) **superpower** country, (2) **superpower** leader

The ability to fly like a bird is often considered a **superpower** in comic books and movies.

## moss

*n.* a small, soft plant that grows in a low, compact layer, often on the ground or on rocks

*synonym*: plant, foliage, greenery

(1) green **moss**, (2) **moss** garden

**Moss** grows in damp, shaded areas and is often found on the forest floor.

## nematode

*n.* a type of long, thin, cylindrical worm that is found in soil and water and can be parasitic or free-living

*synonym* : roundworm, threadworm

(1) microscopic **nematode**, (2) soil-dwelling **nematode**

The **nematode** worm is commonly used as a model organism for genetic studies.

## earthworm

*n.* a common type of worm that lives in soil

*synonym* : angleworm, wiggler, crawler

(1) **earthworm** type robot, (2) trample an **earthworm**

We fed the birds daily with insects and **earthworms**.

## regenerate

*v.* to improve or renew an area, institution, system, etc., especially by making it more active or successful

*synonym* : renew, revive, improve

(1) **regenerate** bone tissue, (2) a **regenerate** sinner

The new CEO's primary mission is to **regenerate** the company on the verge of bankruptcy.

## dagger

*n.* a short, pointed knife with sharp edges used as a weapon or tool

*synonym* : shiv, poniard, blade

(1) **dagger** piercing, (2) sheathed **dagger**

The assassin pulled out a **dagger** from his belt to complete the task.

## spearfish

*v.* to hunt or catch fish using a spear or similar sharp tool, typically while freediving or snorkeling, rather than using breathing apparatus such as scuba gear; (noun) a variety of fish belonging to the family Istiophoridae, which includes several species such as the white marlin, blue marlin, and sailfish

*synonym* : spear, harpoon, impale

(1) **spearfish** in the area, (2) Hawaiian **spearfish**

The diver's goal was to **spearfish** a massive grouper for dinner.



- 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**.
- cilium** n. a microscopic, hair-like cellular projection that is found on the surface of many cells in the body, helping them to move or trap debris  
*synonym* : eyelash, flagellum  
(1) **cilium** movement, (2) primary **cilium**  
The microscopic analysis revealed a **cilium's** presence on the single-celled organism's surface.
- digestive** adj. relating to or capable of causing or promoting digestion of food  
(1) **digestive** juices, (2) a **digestive** enzyme  
A nutritious diet improves **digestive** functions.
- cyanobacteria** n. a group of photosynthetic bacteria that possess chlorophyll and blue pigments and are characteristically found in aquatic environments; also known as blue-green algae  
*synonym* : blue-green algae, blue-green bacteria, pond scum  
(1) **cyanobacteria** blooms, (2) marine **cyanobacteria**  
The toxic algae bloom in the lake was caused by an overgrowth of **cyanobacteria**.
- confetti** n. small pieces of colored paper or other material that are thrown around on festive occasions, especially in celebration or as part of the decoration  
(1) **confetti** party, (2) **confetti-filled** balloons  
We threw **confetti** at the wedding to celebrate the happy couple.
- explode** v. to burst or break open violently and noisily; to cause something to burst or break open

*synonym* : detonate, blast, rupture

(1) **explode** in anger, (2) **explode** in popularity

The old building **exploded** in a fiery inferno.

## petri

*n.* (petri dish) a small, clear, and round dish with a lid used in laboratories, especially for growing bacteria

(1) **petri** dish test, (2) bacteria on **petri** dishes

Glass **petri** dishes are used to culture microorganisms.

## 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.

## elusive

*adj.* difficult to find, define, achieve, or remember

*synonym* : mysterious, ambiguous, inapproachable

(1) an **elusive** criminal, (2) track down an **elusive** fact

The physicist who found the **elusive** particle won the Nobel Prize.

## waddle

*v.* to walk with short, unsteady steps, swaying from side to side; (noun) a rolling gait or awkward walk, often accompanied by the swaying of the body from side to side, as is typical of certain birds and aquatic animals

*synonym* : waggle, toddle, totter

(1) **waddle** like a duck, (2) cute **waddle**

The little penguin **waddled** awkwardly across the icy landscape.

## glide

*v.* to move smoothly and effortlessly

*synonym* : slide, skim, coast

(1) **glide** through the water, (2) **glide** down the mountain

The eagle gracefully **glided** on the thermals, soaring above

the mountains.

## **whimsical**

*adj.* unusual and not severe in a way that might be funny or annoying; determined by chance or impulse or whim rather than by necessity or reason

*synonym* : capricious, impulsive, flighty

(1) **whimsical** reasons, (2) a **whimsical** person

Much of his painting has a **whimsical** quality.

## Session 2: Spelling

1. oxygenic pho\_\_\_\_\_sis  
*n.* the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.
2. co\_\_\_l a person to submission  
*v.* to force or require someone to do something; to exert a strong, irresistible force or pressure that makes someone act in a certain way
3. gl\_\_\_\_\_rs move tardily  
*n.* a slowly moving mass of ice formed from snow on mountains or near the North Pole or the South Pole
4. l\_\_ked behind the words  
*v.* to wait somewhere secretly, especially because you are about to attack someone or do something bad or illegal
5. track down an el\_\_\_\_\_e fact  
*adj.* difficult to find, define, achieve, or remember
6. int\_\_\_\_\_ly decorated  
*adv.* in a manner that involves a lot of detailed and complex arrangement or planning; with many interconnected parts or components
7. c\_\_w marks  
*n.* a curved, pointed appendage found on the foot or leg of an animal, used for gripping or grasping; a human hand with long, narrow fingers that are curved like a claw; a machine or tool with a claw-like opening used for gripping or lifting objects

ANSWERS: 1. photosynthesis, 2. compel, 3. glacier, 4. lurk, 5. elusive, 6. intricately, 7. claw

8. sc\_\_\_t prototype *v.* to create a work of art by carving, casting, or other shaping techniques
9. exo\_\_\_\_\_on suit *n.* a hard, external protective covering or framework that supports and gives shape to the body of an invertebrate animal, such as an insect or crab
10. sup\_\_\_\_\_er leader *n.* a country or nation that has significant global influence or formidable military, economic, or technological strength; a supernatural ability or force capable of extraordinary feats or feats beyond normal human capabilities
11. sw\_\_l up dirt and dust *v.* to move in a circular or spiral pattern
12. sc\_\_\_t an image *v.* to create a work of art by carving, casting, or other shaping techniques
13. ill\_\_\_\_\_te a dark hall *v.* to light something or to make something lighter or brighter; to make something free from confusion or ambiguity
14. cry\_\_\_\_\_te hole *n.* fine sediment or debris that accumulates on the surface of glaciers or ice sheets, typically composed of rock particles, mineral dust, and organic matter; it can have an impact on the surface melting and the overall mass balance of the ice
15. a li\_\_\_\_\_ss corpse *adj.* without life; dead
16. co\_\_\_l attention *v.* to force or require someone to do something; to exert a strong, irresistible force or pressure that makes someone act in a certain way

ANSWERS: 8. sculpt, 9. exoskeleton, 10. superpower, 11. swirl, 12. sculpt, 13. illuminate, 14. cryoconite, 15. lifeless, 16. compel

17. ext\_\_\_\_\_ile habitat *n.* a type of organism, typically a microbe, that can survive and thrive in extreme or harsh environments that would be inhospitable to most other forms of life, such as high heat, acidity, radiation, or pressure
18. as\_\_\_\_\_ut mission *n.* a person trained by a space agency to travel outside the Earth's atmosphere
19. 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
20. wild cr\_\_\_\_\_r *n.* a small or unimportant creature or animal, often used in a familiar or affectionate way
21. as\_\_\_\_\_ut in training *n.* a person trained by a space agency to travel outside the Earth's atmosphere
22. sp\_\_\_\_\_sh in the area *v.* to hunt or catch fish using a spear or similar sharp tool, typically while freediving or snorkeling, rather than using breathing apparatus such as scuba gear; (noun) a variety of fish belonging to the family Istiophoridae, which includes several species such as the white marlin, blue marlin, and sailfish
23. gl\_\_e through the water *v.* to move smoothly and effortlessly
24. fa\_\_\_\_\_y dream *adj.* located at a geographically distant place; remote or separated by distance; distant or not easily accessible

ANSWERS: 17. extremophile, 18. astronaut, 19. microorganism, 20. critter, 21. astronaut, 22. spearfish, 23. glide, 24. faraway

25. robotic exo\_\_\_\_\_on *n.* a hard, external protective covering or framework that supports and gives shape to the body of an invertebrate animal, such as an insect or crab
26. mi\_\_\_\_\_es sterilizer *n.* a tiny living thing that can only be seen with a microscope and that may cause disease
27. co\_\_\_\_\_ti-filled balloons *n.* small pieces of colored paper or other material that are thrown around on festive occasions, especially in celebration or as part of the decoration
28. ea\_\_\_\_\_rm type robot *n.* a common type of worm that lives in soil
29. fall li\_\_\_\_\_ss *adj.* without life; dead
30. l\_\_k in the darkness *v.* to wait somewhere secretly, especially because you are about to attack someone or do something bad or illegal
31. sup\_\_\_\_\_er country *n.* a country or nation that has significant global influence or formidable military, economic, or technological strength; a supernatural ability or force capable of extraordinary feats or feats beyond normal human capabilities
32. me\_\_\_\_\_na fossils *n.* a term used to describe large animals that lived during the Pleistocene epoch, such as mammoths, mastodons, and saber-toothed tigers, and that are now extinct
33. bacteria on pe\_\_i dishes *n.* (petri dish) a small, clear, and round dish with a lid used in laboratories, especially for growing bacteria

ANSWERS: 25. exoskeleton, 26. microbe, 27. confetti, 28. earthworm, 29. lifeless, 30. lurk, 31. superpower, 32. megafauna, 33. petri

34. gl\_\_\_\_\_l terrain *adj.* relating to or resembling a glacier (= a slowly moving mass of ice) or the process of glaciation; characterized by an extremely slow or gradual pace or movement
35. gl\_\_\_\_\_l movements *adj.* relating to or resembling a glacier (= a slowly moving mass of ice) or the process of glaciation; characterized by an extremely slow or gradual pace or movement
36. di\_\_\_\_m species *n.* a type of single-celled algae that is characterized by its ornate and intricate silica shells, which form a distinctive pattern or design when viewed under a microscope
37. se\_\_\_\_\_or mapping *n.* the bottom of the ocean
38. ext\_\_\_\_\_ile adaptations *n.* a type of organism, typically a microbe, that can survive and thrive in extreme or harsh environments that would be inhospitable to most other forms of life, such as high heat, acidity, radiation, or pressure
39. cha\_\_\_\_\_ic personality *adj.* having a strong and magnetic personality that attracts and influences others
40. tiny tar\_\_\_\_\_de *n.* a microscopic, water-dwelling animal that is known for its resilience and ability to survive extreme conditions
41. ex\_\_\_\_\_et mission *n.* a planet that orbits a star outside of the solar system

ANSWERS: 34. glacial, 35. glacial, 36. diatom, 37. seafloor, 38. extremophile, 39. charismatic, 40. tardigrade, 41. exoplanet



42. me\_\_\_\_\_na extinction *n.* a term used to describe large animals that lived during the Pleistocene epoch, such as mammoths, mastodons, and saber-toothed tigers, and that are now extinct
43. wh\_\_\_\_\_al reasons *adj.* unusual and not severe in a way that might be funny or annoying; determined by chance or impulse or whim rather than by necessity or reason
44. sp\_\_t across the table *v.* to suddenly burst forth or flow out powerfully or suddenly; to make a sudden effort or increase in activity or energy
45. the closest ex\_\_\_\_\_et to Earth *n.* a planet that orbits a star outside of the solar system
46. marine cya\_\_\_\_\_ria *n.* a group of photosynthetic bacteria that possess chlorophyll and blue pigments and are characteristically found in aquatic environments; also known as blue-green algae
47. begin to r\_t *v.* to decay, or cause something to decay, naturally and gradually
48. fa\_\_\_\_\_y land *adj.* located at a geographically distant place; remote or separated by distance; distant or not easily accessible
49. freshwater di\_\_\_ms *n.* a type of single-celled algae that is characterized by its ornate and intricate silica shells, which form a distinctive pattern or design when viewed under a microscope

ANSWERS: 42. megafauna, 43. whimsical, 44. spurt, 45. exoplanet, 46. cyanobacteria, 47. rot, 48. faraway, 49. diatom

50. unexpectedly sp\_\_t      *v.* to suddenly burst forth or flow out powerfully or suddenly; to make a sudden effort or increase in activity or energy
51. gl\_\_e down the mountain      *v.* to move smoothly and effortlessly
52. cute wa\_\_\_e      *v.* to walk with short, unsteady steps, swaying from side to side; (noun) a rolling gait or awkward walk, often accompanied by the swaying of the body from side to side, as is typical of certain birds and aquatic animals
53. ci\_\_\_m movement      *n.* a microscopic, hair-like cellular projection that is found on the surface of many cells in the body, helping them to move or trap debris
54. green m\_\_s      *n.* a small, soft plant that grows in a low, compact layer, often on the ground or on rocks
55. da\_\_\_r piercing      *n.* a short, pointed knife with sharp edges used as a weapon or tool
56. a di\_\_\_\_\_ve enzyme      *adj.* relating to or capable of causing or promoting digestion of food
57. di\_\_\_\_\_ve juices      *adj.* relating to or capable of causing or promoting digestion of food
58. soil-dwelling ne\_\_\_\_\_de      *n.* a type of long, thin, cylindrical worm that is found in soil and water and can be parasitic or free-living
59. r\_v up the crowd      *n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute

ANSWERS: 50. spurt, 51. glide, 52. waddle, 53. cilium, 54. moss, 55. dagger, 56. digestive, 57. digestive, 58. nematode, 59. rev

60. ex\_\_\_\_e in anger      *v.* to burst or break open violently and noisily; to cause something to burst or break open
61. p\_\_k handling      *n.* a small, hard rubber disc used in ice hockey and other related games; a mischievous or playful sprite or demon in folklore and mythology
62. mic\_\_\_\_ic analysis      *adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
63. pe\_\_\_\_n habitat      *n.* a flightless sea bird that is found in the Southern Hemisphere and is known for its distinctive black and white coloring and its upright, waddling gait
64. c\_\_w hammer      *n.* a curved, pointed appendage found on the foot or leg of an animal, used for gripping or grasping; a human hand with long, narrow fingers that are curved like a claw; a machine or tool with a claw-like opening used for gripping or lifting objects
65. trample an ea\_\_\_\_rm      *n.* a common type of worm that lives in soil
66. an el\_\_\_\_e criminal      *adj.* difficult to find, define, achieve, or remember
67. low-r\_v engine      *n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
68. al\_\_e biofuel      *n.* A simple plant that grows in or near water and lacks typical leaves and roots

ANSWERS: 60. explode, 61. puck, 62. microscopic, 63. penguin, 64. claw, 65. earthworm, 66. elusive, 67. rev, 68. algae

69. a wh\_\_\_\_\_al person *adj.* unusual and not severe in a way that might be funny or annoying; determined by chance or impulse or whim rather than by necessity or reason
70. r\_t with age *v.* to decay, or cause something to decay, naturally and gradually
71. mic\_\_\_\_\_ic inquiry *adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
72. Adelie pe\_\_\_\_\_n *n.* a flightless sea bird that is found in the Southern Hemisphere and is known for its distinctive black and white coloring and its upright, waddling gait
73. Hawaiian sp\_\_\_\_\_sh *v.* to hunt or catch fish using a spear or similar sharp tool, typically while freediving or snorkeling, rather than using breathing apparatus such as scuba gear; (noun) a variety of fish belonging to the family Istiophoridae, which includes several species such as the white marlin, blue marlin, and sailfish
74. sw\_\_l the wine *v.* to move in a circular or spiral pattern
75. se\_\_\_\_\_er ten percent of the annual carbon emissions *v.* to take temporary possession of someone's property until a debt is paid.
76. 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
77. microscopic ne\_\_\_\_\_de *n.* a type of long, thin, cylindrical worm that is found in soil and water and can be parasitic or free-living

ANSWERS: 69. whimsical, 70. rot, 71. microscopic, 72. penguin, 73. spearfish, 74. swirl, 75. sequester, 76. microorganism, 77. nematode

78. blue al\_\_e *n.* A simple plant that grows in or near water and lacks typical leaves and roots
79. non-fiction fi\_\_\_\_\_er *n.* a person who makes films, typically as a profession
80. tar\_\_\_\_\_de research *n.* a microscopic, water-dwelling animal that is known for its resilience and ability to survive extreme conditions
81. reg\_\_\_\_\_te bone tissue *v.* to improve or renew an area, institution, system, etc., especially by making it more active or successful
82. cha\_\_\_\_\_ic chairman *adj.* having a strong and magnetic personality that attracts and influences others
83. se\_\_\_\_\_er myself from the world *v.* to take temporary possession of someone's property until a debt is paid.
84. ex\_\_\_\_\_e in popularity *v.* to burst or break open violently and noisily; to cause something to burst or break open
85. se\_\_\_\_\_or exploration *n.* the bottom of the ocean
86. m\_\_s garden *n.* a small, soft plant that grows in a low, compact layer, often on the ground or on rocks
87. hockey p\_\_k *n.* a small, hard rubber disc used in ice hockey and other related games; a mischievous or playful sprite or demon in folklore and mythology
88. a reg\_\_\_\_\_te sinner *v.* to improve or renew an area, institution, system, etc., especially by making it more active or successful

ANSWERS: 78. algae, 79. filmmaker, 80. tardigrade, 81. regenerate, 82. charismatic, 83. sequester, 84. explode, 85. seafloor, 86. moss, 87. puck, 88. regenerate

89. primary ci\_\_\_m *n.* a microscopic, hair-like cellular projection that is found on the surface of many cells in the body, helping them to move or trap debris
90. pe\_\_i dish test *n.* (petri dish) a small, clear, and round dish with a lid used in laboratories, especially for growing bacteria
91. int\_\_\_\_\_ly woven *adv.* in a manner that involves a lot of detailed and complex arrangement or planning; with many interconnected parts or components
92. wa\_\_\_e like a duck *v.* to walk with short, unsteady steps, swaying from side to side; (noun) a rolling gait or awkward walk, often accompanied by the swaying of the body from side to side, as is typical of certain birds and aquatic animals
93. cute cr\_\_\_\_r *n.* a small or unimportant creature or animal, often used in a familiar or affectionate way
94. gl\_\_\_\_r retreat *n.* a slowly moving mass of ice formed from snow on mountains or near the North Pole or the South Pole
95. cya\_\_\_\_\_ria blooms *n.* a group of photosynthetic bacteria that possess chlorophyll and blue pigments and are characteristically found in aquatic environments; also known as blue-green algae
96. cry\_\_\_\_\_te sediment *n.* fine sediment or debris that accumulates on the surface of glaciers or ice sheets, typically composed of rock particles, mineral dust, and organic matter; it can have an impact on the surface melting and the overall mass balance of the ice

ANSWERS: 89. cilium, 90. petri, 91. intricately, 92. waddle, 93. critter, 94. glacier, 95. cyanobacteria, 96. cryoconite

97. co\_\_\_\_ti party *n.* small pieces of colored paper or other material that are thrown around on festive occasions, especially in celebration or as part of the decoration
98. process of pho\_\_\_\_\_sis *n.* the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.
99. pathogenic mi\_\_\_\_\_e *n.* a tiny living thing that can only be seen with a microscope and that may cause disease
100. ill\_\_\_\_\_te my understanding *v.* to light something or to make something lighter or brighter; to make something free from confusion or ambiguity
101. a successful fi\_\_\_\_\_er *n.* a person who makes films, typically as a profession
102. sheathed da\_\_\_r *n.* a short, pointed knife with sharp edges used as a weapon or tool

ANSWERS: 97. confetti, 98. photosynthesis, 99. microbe, 100. illuminate, 101. filmmaker, 102. dagger

## Session 3: Fill in the Blanks

1. The strict deadlines will \_\_\_\_\_ the team to work efficiently.  
*v.* to force or require someone to do something; to exert a strong, irresistible force or pressure that makes someone act in a certain way
  
2. The \_\_\_\_\_ Kepler-186f is located 500 light-years from Earth and is believed to be habitable.  
*n.* a planet that orbits a star outside of the solar system
  
3. The ability to fly like a bird is often considered a \_\_\_\_\_ in comic books and movies.  
*n.* a country or nation that has significant global influence or formidable military, economic, or technological strength; a supernatural ability or force capable of extraordinary feats or feats beyond normal human capabilities
  
4. \_\_\_\_\_ grows in damp, shaded areas and is often found on the forest floor.  
*n.* a small, soft plant that grows in a low, compact layer, often on the ground or on rocks
  
5. The view from the \_\_\_\_\_ hilltop was breathtakingly beautiful.  
*adj.* located at a geographically distant place; remote or separated by distance; distant or not easily accessible
  
6. He was a \_\_\_\_\_ leader and could persuade others to follow his ideas.  
*adj.* having a strong and magnetic personality that attracts and influences others
  
7. The microscopic analysis revealed a \_\_\_\_\_ presence on the single-celled organism's surface.  
*n.* a microscopic, hair-like cellular projection that is found on the surface of many cells in the body, helping them to move or trap debris

ANSWERS: 1. compel, 2. exoplanet, 3. superpower, 4. Moss, 5. faraway, 6. charismatic, 7. cilium's



8. He spent hours every day \_\_\_\_\_ figures out of clay.
- v. to create a work of art by carving, casting, or other shaping techniques
9. The \_\_\_\_\_ of the crab protects it from predators and environmental changes.
- n. a hard, external protective covering or framework that supports and gives shape to the body of an invertebrate animal, such as an insect or crab
10. In \_\_\_\_\_ plants use carbon dioxide to feed themselves.
- n. the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.
11. Glass \_\_\_\_\_ dishes are used to culture microorganisms.
- n. (petri dish) a small, clear, and round dish with a lid used in laboratories, especially for growing bacteria
12. The eagle gracefully \_\_\_\_\_ on the thermals, soaring above the mountains.
- v. to move smoothly and effortlessly
13. The assassin pulled out a \_\_\_\_\_ from his belt to complete the task.
- n. a short, pointed knife with sharp edges used as a weapon or tool
14. Scientists have studied the resilience of the \_\_\_\_\_ also known as a water bear.
- n. a microscopic, water-dwelling animal that is known for its resilience and ability to survive extreme conditions
15. The new CEO's primary mission is to \_\_\_\_\_ the company on the verge of bankruptcy.
- v. to improve or renew an area, institution, system, etc., especially by making it more active or successful

ANSWERS: 8. sculpting, 9. exoskeleton, 10. photosynthesis, 11. petri, 12. glided, 13. dagger, 14. tardigrade, 15. regenerate

16. The chef expertly \_\_\_\_\_ the sauce onto the plate.

*v.* to move in a circular or spiral pattern

17. The \_\_\_\_\_ pace of the negotiations frustrated both parties.

*adj.* relating to or resembling a glacier (= a slowly moving mass of ice) or the process of glaciation; characterized by an extremely slow or gradual pace or movement

18. In Arctic regions, \_\_\_\_\_ particles can accelerate the melting of glaciers.

*n.* fine sediment or debris that accumulates on the surface of glaciers or ice sheets, typically composed of rock particles, mineral dust, and organic matter; it can have an impact on the surface melting and the overall mass balance of the ice

19. He stepped on the gas pedal, and the engine released a loud \_\_\_\_.

*n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute

20. The shuttle \_\_\_\_\_ trained for months before embarking on the space mission.

*n.* a person trained by a space agency to travel outside the Earth's atmosphere

21. 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

22. \_\_\_\_\_ 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

ANSWERS: 16. swirled, 17. glacial, 18. cryoconite, 19. rev, 20. astronaut, 21. microorganism, 22. Microbes

23. \_\_\_\_\_ fossils can tell us a lot about the history and environment of the oceans.
- n.* a type of single-celled algae that is characterized by its ornate and intricate silica shells, which form a distinctive pattern or design when viewed under a microscope
24. The oceanographer studied the \_\_\_\_\_ topography to understand how it had changed over time.
- n.* the bottom of the ocean
25. The bear used its \_\_\_\_\_ to catch a fish in the river.
- n.* a curved, pointed appendage found on the foot or leg of an animal, used for gripping or grasping; a human hand with long, narrow fingers that are curved like a claw; a machine or tool with a claw-like opening used for gripping or lifting objects
26. We took a boat tour to witness the magnificent \_\_\_\_\_ colony along the rugged coastline.
- n.* a flightless sea bird that is found in the Southern Hemisphere and is known for its distinctive black and white coloring and its upright, waddling gait
27. In the city, the risk of traffic accidents \_\_\_\_\_ at every corner.
- v.* to wait somewhere secretly, especially because you are about to attack someone or do something bad or illegal
28. He approved their requests to \_\_\_\_\_ the jury.
- v.* to take temporary possession of someone's property until a debt is paid.
29. We threw \_\_\_\_\_ at the wedding to celebrate the happy couple.
- n.* small pieces of colored paper or other material that are thrown around on festive occasions, especially in celebration or as part of the decoration

ANSWERS: 23. Diatom, 24. seafloor, 25. claw, 26. penguin, 27. lurks, 28. sequester, 29. confetti

30. \_\_\_\_\_ bacteria can survive in extreme heat, cold, and radiation.  
*n.* a type of organism, typically a microbe, that can survive and thrive in extreme or harsh environments that would be inhospitable to most other forms of life, such as high heat, acidity, radiation, or pressure
31. The watch was \_\_\_\_\_ designed, with many small moving parts.  
*adv.* in a manner that involves a lot of detailed and complex arrangement or planning; with many interconnected parts or components
32. The renowned \_\_\_\_\_ won several awards for his latest film.  
*n.* a person who makes films, typically as a profession
33. The diver's goal was to \_\_\_\_\_ a massive grouper for dinner.  
*v.* to hunt or catch fish using a spear or similar sharp tool, typically while freediving or snorkeling, rather than using breathing apparatus such as scuba gear; (noun) a variety of fish belonging to the family Istiophoridae, which includes several species such as the white marlin, blue marlin, and sailfish
34. That biologist \_\_\_\_\_ the mechanism of heredity.  
*v.* to light something or to make something lighter or brighter; to make something free from confusion or ambiguity
35. During their camping trip, the kids were excited to go \_\_\_\_\_ hunting in the woods.  
*n.* a small or unimportant creature or animal, often used in a familiar or affectionate way
36. The hockey player took a shot but missed the \_\_\_\_\_ entirely.  
*n.* a small, hard rubber disc used in ice hockey and other related games; a mischievous or playful sprite or demon in folklore and mythology

ANSWERS: 30. Extremophile, 31. intricately, 32. filmmaker, 33. spearfish, 34. illuminated, 35. critter, 36. puck

37. We fed the birds daily with insects and \_\_\_\_\_.

*n.* a common type of worm that lives in soil

38. The water hose suddenly \_\_\_\_\_ out a strong jet of water.

*v.* to suddenly burst forth or flow out powerfully or suddenly; to make a sudden effort or increase in activity or energy

39. Many prehistoric \_\_\_\_\_ such as mammoths and saber-toothed tigers, are now extinct.

*n.* a term used to describe large animals that lived during the Pleistocene epoch, such as mammoths, mastodons, and saber-toothed tigers, and that are now extinct

40. Please refrigerate the meat, or it will \_\_\_\_\_.

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

41. \_\_\_\_\_ has jammed the inlet to the water turbine.

*n.* A simple plant that grows in or near water and lacks typical leaves and roots

42. Much of his painting has a \_\_\_\_\_ quality.

*adj.* unusual and not severe in a way that might be funny or annoying; determined by chance or impulse or whim rather than by necessity or reason

43. The plant had a \_\_\_\_\_ appearance, indicating that it was not getting enough water.

*adj.* without life; dead

44. A nutritious diet improves \_\_\_\_\_ functions.

*adj.* relating to or capable of causing or promoting digestion of food

ANSWERS: 37. earthworms, 38. spurted, 39. megafaunas, 40. rot, 41. Algae, 42. whimsical, 43. lifeless, 44. digestive

45. Inspectors noticed \_\_\_\_\_ cracks in the submarine's hull.

*adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy

46. The little penguin \_\_\_\_\_ awkwardly across the icy landscape.

*v.* to walk with short, unsteady steps, swaying from side to side; (noun) a rolling gait or awkward walk, often accompanied by the swaying of the body from side to side, as is typical of certain birds and aquatic animals

47. The physicist who found the \_\_\_\_\_ particle won the Nobel Prize.

*adj.* difficult to find, define, achieve, or remember

48. The \_\_\_\_\_ of the ice age have shaped Fjord.

*n.* a slowly moving mass of ice formed from snow on mountains or near the North Pole or the South Pole

49. The old building \_\_\_\_\_ in a fiery inferno.

*v.* to burst or break open violently and noisily; to cause something to burst or break open

50. The \_\_\_\_\_ worm is commonly used as a model organism for genetic studies.

*n.* a type of long, thin, cylindrical worm that is found in soil and water and can be parasitic or free-living

51. The toxic algae bloom in the lake was caused by an overgrowth of \_\_\_\_\_.

*n.* a group of photosynthetic bacteria that possess chlorophyll and blue pigments and are characteristically found in aquatic environments; also known as blue-green algae

ANSWERS: 45. microscopic, 46. waddled, 47. elusive, 48. glaciers, 49. exploded, 50. nematode, 51. cyanobacteria