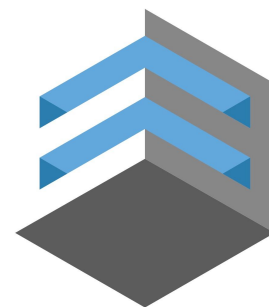


# Englist.me



## Vocabulary Builder Reference from...

*Ellen Jorgensen: What you need to know about CRISPR | TED Talk*

[https://www.ted.com/talks/ellen\\_jorgensen\\_what\\_you\\_need\\_to\\_know\\_about\\_crispr](https://www.ted.com/talks/ellen_jorgensen_what_you_need_to_know_about_crispr)

### All Words

#### IMPORTANT

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

## Session 1: Word List

### shock

*n.* a strong feeling or physical reaction to a sudden and unexpected event or experience, especially something unpleasant

*synonym* : amazement, surprise, stunner

(1) death from **shock**, (2) **shock-resistant**

He got an electric **shock** at work.

### genome

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

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

The human **genome** contains approximately three billion chemical base pairs.

### edit

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

*synonym* : revise, modify, adjust

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

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

### versatile

*adj.* able to do many things in different fields; having many talents

*synonym* : adaptable, protean, universal

(1) provide a **versatile** solution, (2) a **versatile** writer  
He's a **versatile** actor who has acted in various parts.

## controversial

*adj.* causing a lot of hot public discussion and dispute  
*synonym*: contentious, disputed, questionable

(1) **controversial** book, (2) **controversial** policy  
The issue of the death penalty is highly **controversial**.

## spark

*v.* to start something or make it grow, especially suddenly;  
to emit a tiny piece of fire or electricity  
*synonym*: start, inspire, provoke

(1) **spark** his interest, (2) **spark** a chain reaction  
The bankruptcy of the giant conglomerate **sparked** turmoil in  
the stock market.

## conversation

*n.* an informal talk between two or more people to  
exchange their views, ideas, information, etc.  
*synonym*: chat, discussion, dialogue

(1) **conversation** in English, (2) a friendly **conversation**  
Your **conversation** reflects your thoughts.

## woolly

*adj.* covered with thick, soft, and often curly hair or fibers;  
lacking clarity or precision  
*synonym*: fuzzy, hairy, shaggy

(1) **woolly** lambs, (2) **woolly** hair  
The sheep had a thick, **woolly** coat to keep it warm in the  
winter.

## mammoth

*adj.* exceedingly large or extensive; (noun) any of numerous  
extinct elephants widely distributed in the Pleistocene  
*synonym*: huge, large

(1) woolly **mammoth**, (2) a **mammoth** ship  
The minister decided to review its **mammoth** public works  
projects.

## embryo

*n.* an animal organism in the early stages of growth, either in its mother's womb or in an egg, or a plant that is developing in a seed

*synonym* : fetus, seed, origin

(1) destruction of human **embryos**, (2) **embryo** cloning

Our latest project is still at the **embryo** stage.

## wipe

*v.* to clean or dry something by rubbing with a piece of cloth or paper or one's hand and removing dirt, food, or liquid

*synonym* : clean, brush, swab

(1) **Wipe** off dirt, (2) **wipe** with water

Please **wipe** your sweat with this towel.

## mechanism

*n.* a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction

*synonym* : means, method, system

(1) the **mechanism** for DNA replication, (2) defense **mechanism**

He discovered unique **mechanisms** for photochemical reactions.

## govern

*v.* to legally control and direct a country, city, group of people, etc. and be responsible for introducing new laws, organizing and maintaining public services

*synonym* : control, rule, preside

(1) a nation's right to **govern**, (2) **govern** a public enterprise

The regulations **governing** medical malpractice claims are rigorous.

## implication

*n.* something that is inferred or indirectly stated; the act or fact of being involved in something

*synonym* : suggestion, association, conclusion

(1) the **implication** in a crime, (2) the **implication** of a word

His poem has a very significant **implication**.

## **hype**

*n.* advertisements and media discussions informing the public about a product and how nice or vital it is

*synonym* : hoopla, ballyhoo, advertising

(1) media **hype**, (2) emotional **hype**

The audience was not duped by the media's **hype** around the event.

## **drill**

*n.* a tool or machine used for making round holes or driving fasteners; a training or practice

*synonym* : exercise, routine, training

(1) the **drill** hit the well, (2) fire **drill**

Several military **drill** programs have become popular methods of exercise.

## **myth**

*n.* an ancient story or set of stories accepted as history, especially explaining the worldview of a people

*synonym* : fable, legend, lore

(1) the **myth** of an old religion, (2) perpetuate a **myth**

With the financial bubble bursting, the **myth** of economic growth in investment banking collapsed.

## **damage**

*v.* to harm or cause injury to something or someone, often resulting in decreased value or functionality; to impair or negatively affect something, such as a reputation or relationship; (noun) harm or injury that is caused to a person, thing, or entity

*synonym* : harm, impair, injure

(1) **damage** a relationship, (2) **damage** assessment

During the surgery, the doctor had to be extremely cautious not to **damage** a blood vessel.

## **strand**

*n.* a very thin natural or synthetic thread, wire, hair, etc.; (verb) to leave or drive a vessel, fish, etc., aground or ashore

*synonym* : fiber, filament, string

(1) a **strand** of fine hair, (2) double- **strand** DNA

I heard several melodic **strands** simultaneously.

## helix

*n.* a three-dimensional spiral shape or structure, particularly like that of a spring or a DNA molecule

*synonym* : coil, spiral, twist

(1) **helix** structure, (2) alpha **helix**

The DNA molecule is shaped like a double **helix**.

## cellular

*adj.* of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires

*synonym* : organic, biological, nuclear

(1) **cellular** and molecular biology, (2) a **cellular** phone handset

This factory employs a **cellular** manufacturing system.

## process

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

*synonym* : procedure, method, system

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

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

## convince

*v.* to persuade someone or make someone believe that something is true

*synonym* : persuade, win over, convert

(1) **convince** her to go with us, (2) **convince** an opponent

I am considering what I should do to **convince** him.

## protein

*n.* a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues

(1) stress **protein**, (2) **protein** synthesis

The body needs a certain amount of **protein** to build and repair tissues.

## missile

*n.* a weapon, such as a rocket or guided projectile, that is self-propelled and directed by remote control or by an internal guidance mechanism

*synonym* : projectile, rocket, bomb

(1) **missile** defense, (2) cruise **missile** attack

The military launched a ballistic **missile** at the enemy's stronghold.

## anthropomorphize

*v.* to attribute human characteristics, emotions, and abilities to non-human entities

*synonym* : personify, humanize

(1) **anthropomorphize** animals, (2) **anthropomorphize** God

The children **anthropomorphized** their stuffed animals and gave them personalities.

## chew

*v.* to crush or grind something, especially food, with the teeth and then swallow it

*synonym* : masticate, crush, grind

(1) **chew** each word, (2) **chew** a stick of gum

My dog loves to **chew** on bones.

## leash

*n.* a long, flexible cord or chain used to restrain or control a dog (or other animals); a figurative tool used to control or limit someone's behavior or actions

*synonym* : tether, lead, restraint

(1) dog **leash**, (2) walk on a **leash**

Make sure to put the **leash** on your dog before walking.

## spot

*n.* a particular location or place; a small round or roundish area, differing in color or feels from the surface around it

*synonym* : dot, mark, place

(1) beauty **spot**, (2) a **spot** on his honor

This remote **spot** is rarely visited.

## combination

*n.* a collection of things that have been combined; an assemblage of separate parts or qualities

*synonym* : blend, hybrid, compounding

(1) genic **combinations**, (2) **combination** number

The **combination** to the safe was a secret.

## ancient

*adj.* relating to the long ago, particularly the historical period preceding the fall of the Western Roman Empire; very old

*synonym* : archaic, age-old, obsolete

(1) pre-Christian **ancient**, (2) **ancient** stories

They have been living near water since **ancient** times.

## 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.

## immune

*adj.* protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells

*synonym* : resistant, unsusceptible, unaffected

(1) **immune** from criminal prosecution, (2) the cell of the **immune** system

The vaccination does not necessarily make you completely **immune**.

## amazing

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

*synonym* : exceptional, extraordinary, wonderful

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

The golfer recorded an **amazing** distance.

## modular

*adj.* consisting of distinct or separable parts or units that can be joined together and form a complete whole

*synonym* : interchangeable, standard, transposable

(1) build a **modular** system, (2) **modular** furniture

Computers have a **modular** structure, making it easy to upgrade essential functions.

## remarkable

*adj.* worthy of attention because unusual or special

*synonym* : outstanding, exceptional, extraordinary

(1) **remarkable** achievement, (2) the **remarkable** breadth of knowledge

The election was a **remarkable** success for the Whigs.

## complexity

*n.* the state or quality of being complicated or intricate and difficult to understand

*synonym* : intricacy, sophistication, elaboration

(1) cognitive **complexity**, (2) **complexity** theory

The project's **complexity** made it difficult for the team to complete it on time.

## bounce

*v.* to cause to move up or away after hitting a surface; to spring back

*synonym* : bound, leap, spring

(1) **bounce** across the floor, (2) **bounce** back from failure

They will **bounce** between various emotional states.

## insert

*v.* to put something inside something else

*synonym* : introduce, add, embed

(1) **insert** coin, (2) **insert** a graphic

She **inserted** a new chapter into her manuscript.

## rip

*v.* to tear something or be torn violently or suddenly

*synonym* : tear, cut, slit

(1) **rip** a notebook apart, (2) **rip** a hole in the roof

During transit, the stuff may **rip** off the luggage tag.

## trigger

*v.* to make something happen suddenly; to cause something such as a device, machine, etc. to function

*synonym* :



activate, spark, drive

(1) **trigger** a biochemical response, (2) **trigger** inflation

The incident **triggered** a political controversy.

## panic

*n.* a sudden strong feeling of fear that cannot be controlled and prevents reasonable thought and action

*synonym*: confusion, hysteria, consternation

(1) a **panic** reaction, (2) **panic** buying

The participation of oil-producing countries in the war caused **panic** in the financial markets.

## pathway

*n.* a track that constitutes or serves as a path; an approach or a way of doing something

*synonym*: route, footpath, trail

(1) **pathway** to understanding, (2) cellular signaling

### **pathways**

When the first molecule in the **pathway** receives a signal, it activates other molecules.

## shove

*v.* to push someone or something in a rough way

*synonym*: push, jab, elbow

(1) **shove** a person aside, (2) **shove** hamburger into my mouth

He forcibly **shoved** the flyer into my bag.

## efficient

*adj.* performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials

*synonym*: productive, effective, competent

(1) **efficient** operation, (2) energy- **efficient** appliances

The new washing machine is much more **efficient** than the old one.

## homologous

*adj.* having the same or similar structure, position, or function, particularly in different species or organisms;

related by common ancestry

*synonym*: corresponding, analogous, similar

(1) **homologous** genes, (2) **homologous** structures

**Homologous** recombination is a process that can occur during DNA repair.

## diploid

*adj.* relating to a cell or organism with two complete sets of chromosomes (= long, thread-like molecules made of DNA and proteins); (noun) cells that contain two complete sets of chromosomes, one from each parent

*synonym*: doubled, matched, paired

(1) **diploid** nuclei, (2) **diploid** organism

The **diploid** cells contain two sets of chromosomes, one from each parent, allowing for genetic variation.

## dam

*n.* a wall constructed over a river to block the flow of water, mainly used to generate energy

*synonym*: barricade, barrier, embankment

(1) **dam-building** program, (2) **dam** collapsing

The break in the **dam** threatened the valley.

## chromosome

*n.* a long and string-like DNA molecule containing the part or all of the genetic material of an organism that controls what an animal or plant is like

*synonym*: DNA

(1) a sex **chromosome**, (2) the end of **chromosome**

Human females normally have two X **chromosomes**.

## hijack

*v.* to seize control of an airplane or other vehicle during an operation, especially with violence

*synonym*: commandeer, seize, pirate

(1) **hijack** a helicopter, (2) **hijack** a phone number

He made a desperate effort to **hijack** an airliner.

## 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.

## **catalyst**

*n.* a person or thing that causes an important event to happen or changes the current situation rapidly;  
(chemistry) a substance that initiates or accelerates a chemical reaction without being changed itself

*synonym*: accelerator, stimulant, motivation

(1) a **catalyst** in the process of hydrolysis, (2) **catalyst** for reform

The global financial crisis acted as a **catalyst** to unite the country.

## **communal**

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

*synonym*: collaborative, combined, collective

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

**Communal** elections were held in several European countries.

## **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**.

## **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.

## comparison

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

*synonym*: equivalence, analogy, contrast

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

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

## experiment

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

*synonym*: experimentation, investigation

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

His **experiments** showed highly positive results.

## mention

*v.* to speak or write about something or someone briefly

*synonym*: reference, allude, cite

(1) **mention** name, (2) **mention** in a report

I **mentioned** to him that I had seen his sister at the grocery store earlier that day.

## patent

*n.* a legal document that grants an inventor exclusive rights to their invention for a certain period of time; the invention or process for which a patent has been granted

*synonym*: copyright, trademark, license

(1) **patent** application, (2) **patent** law

The company has filed for a **patent** to protect its new invention.

## invention

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

*synonym*: creation, design, innovation

(1) the **invention** of new techniques, (2) common **invention**

Necessity is the mother of **invention**.

## broad

*adj.* very wide; general

*synonym*: wide, expansive, comprehensive

(1) attract **broad** attention, (2) a **broad** mind

He accumulated wealth across a **broad** spectrum of assets.

## **institute**

*n.* an organization that has a specific purpose, particularly one dealing with science, education, or a particular profession; (verb) to initiate, introduce, or establish something

*synonym*: academy, university, college

(1) **institute** a lawsuit, (2) research **institutes**

This region has many **institutes** offering higher education.

## **incredible**

*adj.* unbelievable; enormous

*synonym*: unbelievable, fantastical, inconceivable

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

Her response revealed **incredible** idiocy.

## **fascinating**

*adj.* extremely interesting

*synonym*: alluring, intriguing, captivating

(1) **fascinating** story, (2) completely **fascinating** to me

The museum houses a **fascinating** collection of Celtic artifacts.

## **accuse**

*v.* to charge or criticize someone with a crime or wrongdoing

*synonym*: charge, blame, criticize

(1) **accuse** his rudeness, (2) **accuse** each other

The witness **accused** the defendant of committing the robbery.

## **fraudulent**

*adj.* involving deception or dishonesty; intended to deceive or defraud; false or misleading

*synonym*: dishonest, deceitful, fallacious

(1) **fraudulent** activity, (2) **fraudulent** alteration of data

The company was involved in a **fraudulent** scheme to scam customers out of money.

## **claim**

*v.* to assert that something is true; to demand or request something as one's own; to lay legal or moral right to

something; (noun) a demand or assertion of a right or something that one believes to be true

*synonym* : assert, declare, maintain

(1) **claim** responsibility, (2) false **claim**

He wants to **claim** ownership of the abandoned property.

## settle

v. to reach an agreement of disagreement

*synonym* : inhabit, occupy, decide

(1) **settle** a dispute, (2) **settle** down in the town

I don't want to **settle** for second best.

## bet

v. to risk money on the result of an event or a competition, such as a race or game, to get more money; to have faith or confidence in something

*synonym* : stake, wager, gamble

(1) **bet** on a race, (2) **bet** my future

I **bet** that you know it.

## hefty

*adj.* large, bulky, and heavy; impressively large, substantial, or powerful; large in amount, extent, or significance

*synonym* : weighty, substantial, sizeable

(1) **hefty** price, (2) **hefty** breakfast

The **hefty** box of books was too heavy to lift on my own.

## license

*n.* an official permission or authorization to do, use, or own something; a legal document that grants the holder the right to perform certain activities, such as driving a car, practicing a profession, or using a particular product or service

*synonym* : permit, authorization, certificate

(1) **license** renewal, (2) software **license**

Before driving, ensure you have a valid driver's **license**.

## fee

*n.* a sum of money charged for a particular service

*synonym* : charge, cost, expense

(1) **fee** calculation, (2) service **fee**

The lawyer's **fee** for the case was \$10,000.

## devil

*n.* a supernatural being typically represented in belief systems as an evil or mischievous spirit, often used metaphorically to describe a person or thing that is harmful, dangerous, or wicked

*synonym* : demon, fiend, satan

(1) **devil's** advocate, (2) **devil** horns

There are various ways to ward off the **devil**, including prayer and holy water.

## 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.

## tricky

*adj.* requiring care and skill because challenging to do or deal with

*synonym* : thorny, problematic, crafty

(1) **tricky** problem, (2) a **tricky** recipe to follow

We have discussed the entirety of this **tricky** problem.

## marrow

*n.* a soft, fatty, vascular substance in the cavities of bones, in which blood cells are produced; the choicest or most essential part of some idea or experience

*synonym* : bone marrow, pith, center

(1) the **marrow** of a speech, (2) vegetable **marrow**

The soup was made with bone **marrow**, giving it a rich and savory flavor.

## leukemia

*n.* a type of cancer that affects the blood and bone marrow, in which abnormal white blood cells are produced and grow uncontrollably

*synonym* : blood cancer

(1) childhood **leukemia**, (2) acute **leukemia**

The symptoms of **leukemia** may include fatigue, weakness, and fever.

## precursor

*n.* a person or thing that comes before another of the same kind and that contributes to or influences its growth

*synonym*: antecedent, forerunner, herald

(1) **precursor** cell, (2) **precursor** to serotonin

Sulfur dioxide and nitrogen oxides are the primary **precursors** of acid rain.

## virus

*n.* a tiny infectious organic material that causes disease in people, animals, and plants

*synonym*: bacterium, germ, ailment

(1) spread of the **virus**, (2) a strain of **virus**

An infected person in the hospital will likely pass the **virus** to others.

## infect

*v.* to affect a person, an animal, or a plant with a disease-causing organism

*synonym*: pollute, contaminate, affect

(1) **infect** other animal species, (2) **infect** a computer with a virus

Children often **infect** parents with this head cold.

## off-target

*adj.* referring to something that misses the intended goal or objective; not reaching or affecting the intended target, often used to describe a weapon, technology, or medical treatment

*synonym*: off-center, wide, astray

(1) **off-target** effects, (2) **off-target** inhibition

The joke fell **off-target** and didn't get any laughs from the audience.

## percentage

*n.* the number, amount, or rate of something, which is usually the amount per hundred

*synonym*: rate, ratio, portion

(1) the **percentage** of the gold content, (2) a high **percentage**

What is the **percentage** of the consumption tax in the United States?



## trivial

*adj.* of little value or importance

*synonym* : insignificant, minor, unimportant

(1) a **trivial** man, (2) for **trivial** reasons

The problem seemed **trivial** initially, but it became a significant issue.

## 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.

## AI

*n.* (abbreviation for artificial intelligence) the theory and development of computer systems capable of doing activities that would ordinarily need human intelligence, such as object recognition, speech recognition, decision-making, and language translation

*synonym* : robot, machine learning, neural network

(1) **AI** expert, (2) apply **AI** technology to art

The evolution of processors has dramatically improved the performance of **AI**.

## disease

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

*synonym* : illness, ailment, affliction

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

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

## 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.

## industrial

*adj.* of or relating to or resulting from industry

*synonym*: manufacturing, mechanical

(1) beginning of the **industrial** revolution, (2) **industrial** alcohol

**Industrial** design has become more focused on human nature aspect than ever before.

## vat

*n.* a large container, especially one used for storing or holding liquids

*synonym*: barrel, cask, container

(1) **vat** of acid, (2) a large **vat** for fermenting beer

The restaurant owner bought a large **vat** of cooking oil for frying.

## flashy

*adj.* attractive or impressive by being bright, expensive, large, etc.; (used especially of clothes) marked by conspicuous display

*synonym*: gaudy, ostentatious, dazzling

(1) **flashy** cars, (2) **flashy** graphics

I want to buy a reliable car rather than a **flashy** one.

## aspect

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

*synonym*: characteristic, element, factor

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

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

## drown

*v.* to die or cause to die by being unable to breathe underwater

*synonym*: douse, drench, overwhelm

(1) **drown** in a bath, (2) I was **drowned** in work

Floods have the potential to **drown** any subsurface animals easily.

## infrastructure

*n.* the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies

*synonym* : foundation, framework

(1) IT **infrastructure**, (2) **infrastructure** cost

Aging societies tend to require huge costs for **infrastructure** maintenance.

## shepherd

*n.* a person who tends and guards sheep, especially in a rural area

*synonym* : herder, flock-keeper, sheepdog

(1) **shepherd** boy, (2) sheep without a **shepherd**

The **shepherd's** dog helped keep the sheep in line and protect them from predators.

## responsible

*adj.* answerable or accountable for something within one's power, control, or management

*synonym* : accountable, answerable, liable

(1) **responsible** action, (2) **responsible** for a customer service

She's a **responsible** pet owner who ensures her dog gets enough exercise and a healthy diet.

## urge

*v.* to spur on or encourage someone, especially by cheers and shouts; (noun) a strong desire or impulse, especially one that is difficult to control or resist

*synonym* : push for, advise, (noun) impulse

(1) **urge** a total ban, (2) a sexual **urge**

The lobbyist **urged** Congress not to approve the measure.

## 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.

## outcome

*n.* the result or effect of an action, event, etc.

*synonym*: result, consequence, effect

(1) improved student **outcomes**, (2) a desirable **outcome**

They awaited news of the **outcome** of the election.

## 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.

## Session 2: Spelling

- |   |   |
|---|---|
| 1. com_____on of foods on a caloric basis | <i>n.</i> the consideration or examination of the similarities between two or more people or things   |
| 2. destruction of human em___os           | <i>n.</i> an animal organism in the early stages of growth, either in its mother's womb or in an egg, or a plant that is developing in a seed   |
| 3. am_____g advances                      | <i>adj.</i> extremely surprising, especially in a way that you like or admire   |
| 4. harmless ba_____ia                     | <i>n.</i> 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  |
| 5. ca_____st for reform                   | <i>n.</i> a person or thing that causes an important event to happen or changes the current situation rapidly; (chemistry) a substance that initiates or accelerates a chemical reaction without being changed itself   |
| 6. decision-making pr_____s               | <i>n.</i> a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products |

ANSWERS: 1. comparison, 2. embryo, 3. amazing, 4. bacteria, 5. catalyst, 6. process

- |                                    |  |
|------------------------------------|--|
| 7. a tr____l man                   | <i>adj.</i> of little value or importance  |
| 8. genic com_____ons               | <i>n.</i> a collection of things that have been combined; an assemblage of separate parts or qualities                                 |
| 9. the imp_____on of a word        | <i>n.</i> something that is inferred or indirectly stated; the act or fact of being involved in something                              |
| 10. a s__t on his honor            | <i>n.</i> a particular location or place; a small round or roundish area, differing in color or feels from the surface around it       |
| 11. in___t a graphic               | <i>v.</i> to put something inside something else   |
| 12. a tr___y recipe to follow      | <i>adj.</i> requiring care and skill because challenging to do or deal with  |
| 13. sequencing of the human ge___e | <i>n.</i> the complete set or sequence of genes of a human, animal, plant, or other living things                                      |
| 14. en_____er shortage             | <i>n.</i> a person whose job is designing, building, or maintaining something such as machines, structures, or software                |
| 15. I was dr__ned in work          | <i>v.</i> to die or cause to die by being unable to breathe underwater   |
| 16. the cell of the im___e system  | <i>adj.</i> protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells |
| 17. in___t a computer with a virus | <i>v.</i> to affect a person, an animal, or a plant with a disease-causing organism  |
| 18. co_____al combination of funds | <i>adj.</i> belonging to or used by a group rather than individuals; for common use  |

ANSWERS: 7. trivial, 8. combination, 9. implication, 10. spot, 11. insert, 12. tricky, 13. genome, 14. engineer, 15. drown, 16. immune, 17. infect, 18. communal

19. the imp\_\_\_\_\_on in a crime *n.* something that is inferred or indirectly stated; the act or fact of being involved in something
20. b\_t on a race *v.* to risk money on the result of an event or a competition, such as a race or game, to get more money; to have faith or confidence in something
21. ad\_\_\_\_\_e a cooperative relationship *v.* to go or move forward; to develop in a positive way
22. r\_p a hole in the roof *v.* to tear something or be torn violently or suddenly
23. a friendly con\_\_\_\_\_ion *n.* an informal talk between two or more people to exchange their views, ideas, information, etc.
24. beauty s\_\_t *n.* a particular location or place; a small round or roundish area, differing in color or feels from the surface around it
25. co\_\_\_\_\_al swimming pool *adj.* belonging to or used by a group rather than individuals; for common use
26. vegetable ma\_\_\_w *n.* a soft, fatty, vascular substance in the cavities of bones, in which blood cells are produced; the choicest or most essential part of some idea or experience
27. bacteria on pe\_\_i dishes *n.* (petri dish) a small, clear, and round dish with a lid used in laboratories, especially for growing bacteria
28. the me\_\_\_\_\_sm for DNA replication *n.* a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction

ANSWERS: 19. implication, 20. bet, 21. advance, 22. rip, 23. conversation, 24. spot, 25. communal, 26. marrow, 27. petri, 28. mechanism

29. as\_\_\_ts of social, political, and economic life      *n.* one part or feature of a situation, problem, subject, etc.
30. v\_t of acid      *n.* a large container, especially one used for storing or holding liquids
31. pa\_\_\_t law      *n.* a legal document that grants an inventor exclusive rights to their invention for a certain period of time; the invention or process for which a patent has been granted
32. fl\_\_\_y cars      *adj.* attractive or impressive by being bright, expensive, large, etc.; (used especially of clothes) marked by conspicuous display
33. provide a ve\_\_\_\_\_le solution      *adj.* able to do many things in different fields; having many talents
34. di\_\_\_\_\_d nuclei      *adj.* relating to a cell or organism with two complete sets of chromosomes (= long, thread-like molecules made of DNA and proteins); (noun) cells that contain two complete sets of chromosomes, one from each parent
35. im\_\_\_e from criminal prosecution      *adj.* protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells
36. wo\_\_\_y hair      *adj.* covered with thick, soft, and often curly hair or fibers; lacking clarity or precision
37. ind\_\_\_\_\_al alcohol      *adj.* of or relating to or resulting from industry

ANSWERS: 29. aspect, 30. vat, 31. patent, 32. flashy, 33. versatile, 34. diploid, 35. immune, 36. woolly, 37. industrial



38. 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
39. se\_\_\_\_e a dispute      *v.* to reach an agreement of disagreement
40. service f\_e      *n.* a sum of money charged for a particular service
41. perpetuate a m\_\_h      *n.* an ancient story or set of stories accepted as history, especially explaining the worldview of a people
42. the most am\_\_\_\_g feeling      *adj.* extremely surprising, especially in a way that you like or admire
43. sh\_\_e hamburger into my mouth      *v.* to push someone or something in a rough way
44. da\_\_\_\_e assessment      *v.* to harm or cause injury to something or someone, often resulting in decreased value or functionality; to impair or negatively affect something, such as a reputation or relationship; (noun) harm or injury that is caused to a person, thing, or entity
45. bo\_\_\_\_e across the floor      *v.* to cause to move up or away after hitting a surface; to spring back
46. res\_\_\_\_le action      *adj.* answerable or accountable for something within one's power, control, or management
47. mi\_\_\_\_e defense      *n.* a weapon, such as a rocket or guided projectile, that is self-propelled and directed by remote control or by an internal guidance mechanism

ANSWERS: 38. develop, 39. settle, 40. fee, 41. myth, 42. amazing, 43. shove, 44. damage, 45. bounce, 46. responsible, 47. missile

48. b\_t my future *v.* to risk money on the result of an event or a competition, such as a race or game, to get more money; to have faith or confidence in something
49. a sex chr\_\_\_\_\_me *n.* a long and string-like DNA molecule containing the part or all of the genetic material of an organism that controls what an animal or plant is like
50. pr\_\_\_\_s improvement *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
51. the in\_\_\_\_\_on of new techniques *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
52. a desirable ou\_\_\_\_\_e *n.* the result or effect of an action, event, etc.
53. wo\_\_\_y lambs *adj.* covered with thick, soft, and often curly hair or fibers; lacking clarity or precision
54. a ce\_\_\_\_\_ar phone handset *adj.* of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires
55. the end of chr\_\_\_\_\_me *n.* a long and string-like DNA molecule containing the part or all of the genetic material of an organism that controls what an animal or plant is like

ANSWERS: 48. bet, 49. chromosome, 50. process, 51. invention, 52. outcome, 53. woolly, 54. cellular, 55. chromosome

56. tr\_\_\_\_r a biochemical response      *v.* to make something happen suddenly; to cause something such as a device, machine, etc. to function
57. software li\_\_\_\_e      *n.* an official permission or authorization to do, use, or own something; a legal document that grants the holder the right to perform certain activities, such as driving a car, practicing a profession, or using a particular product or service
58. tr\_\_\_\_r inflation      *v.* to make something happen suddenly; to cause something such as a device, machine, etc. to function
59. di\_\_\_\_e control      *n.* a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems
60. fire dr\_\_l      *n.* a tool or machine used for making round holes or driving fasteners; a training or practice
61. walk on a le\_\_h      *n.* a long, flexible cord or chain used to restrain or control a dog (or other animals); a figurative tool used to control or limit someone's behavior or actions
62. f\_e calculation      *n.* a sum of money charged for a particular service
63. in\_\_\_\_t other animal species      *v.* to affect a person, an animal, or a plant with a disease-causing organism
64. completely fas\_\_\_\_\_ng to me      *adj.* extremely interesting

ANSWERS: 56. trigger, 57. license, 58. trigger, 59. disease, 60. drill, 61. leash, 62. fee, 63. infect, 64. fascinating

65. beginning of the ind\_\_\_\_\_al revolution  
*adj.* of or relating to or resulting from industry
66. the per\_\_\_\_\_ge of the gold content  
*n.* the number, amount, or rate of something, which is usually the amount per hundred
67. u\_\_e a total ban  
*v.* to spur on or encourage someone, especially by cheers and shouts; (noun) a strong desire or impulse, especially one that is difficult to control or resist
68. fra\_\_\_\_\_nt alteration of data  
*adj.* involving deception or dishonesty; intended to deceive or defraud; false or misleading
69. ad\_\_\_\_\_e the technology  
*v.* to go or move forward; to develop in a positive way
70. he\_\_y price  
*adj.* large, bulky, and heavy; impressively large, substantial, or powerful; large in amount, extent, or significance
71. energy-ef\_\_\_\_\_nt appliances  
*adj.* performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials
72. IT inf\_\_\_\_\_ure  
*n.* the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies
73. pr\_\_\_\_\_or cell  
*n.* a person or thing that comes before another of the same kind and that contributes to or influences its growth

ANSWERS: 65. industrial, 66. percentage, 67. urge, 68. fraudulent, 69. advance, 70. hefty, 71. efficient, 72. infrastructure, 73. precursor

74. toxic ch\_\_\_\_als *adj.* relating to or connected with chemistry;
75. fra\_\_\_\_\_nt activity *adj.* involving deception or dishonesty; intended to deceive or defraud; false or misleading
76. a ch\_\_\_\_al compound *adj.* relating to or connected with chemistry;
77. exp\_\_\_\_\_nt design *n.* the scientific test conducted to observe what happens and gain new knowledge
78. a br\_\_d mind *adj.* very wide; general
79. w\_\_e with water *v.* to clean or dry something by rubbing with a piece of cloth or paper or one's hand and removing dirt, food, or liquid
80. a ma\_\_\_\_\_h ship *adj.* exceedingly large or extensive; (noun) any of numerous extinct elephants widely distributed in the Pleistocene
81. he\_\_x structure *n.* a three-dimensional spiral shape or structure, particularly like that of a spring or a DNA molecule
82. em\_\_\_o cloning *n.* an animal organism in the early stages of growth, either in its mother's womb or in an egg, or a plant that is developing in a seed
83. common in\_\_\_\_\_on *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
84. co\_\_\_\_\_ce an opponent *v.* to persuade someone or make someone believe that something is true
85. c\_\_w a stick of gum *v.* to crush or grind something, especially food, with the teeth and then swallow it

ANSWERS: 74. chemical, 75. fraudulent, 76. chemical, 77. experiment, 78. broad, 79. wipe, 80. mammoth, 81. helix, 82. embryo, 83. invention, 84. convince, 85. chew

86. eve\_\_\_\_\_ly succeed *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
87. series of exp\_\_\_\_\_nts *n.* the scientific test conducted to observe what happens and gain new knowledge
88. 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
89. go\_\_\_\_n a public enterprise *v.* to legally control and direct a country, city, group of people, etc. and be responsible for introducing new laws, organizing and maintaining public services
90. fas\_\_\_\_\_ng story *adj.* extremely interesting
91. woolly ma\_\_\_\_\_h *adj.* exceedingly large or extensive; (noun) any of numerous extinct elephants widely distributed in the Pleistocene
92. a strain of vi\_\_s *n.* a tiny infectious organic material that causes disease in people, animals, and plants
93. pe\_\_i dish test *n.* (petri dish) a small, clear, and round dish with a lid used in laboratories, especially for growing bacteria
94. cognitive com\_\_\_\_\_ty *n.* the state or quality of being complicated or intricate and difficult to understand
95. defense me\_\_\_\_\_sm *n.* a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction

ANSWERS: 86. eventually, 87. experiment, 88. develop, 89. govern, 90. fascinating, 91. mammoth, 92. virus, 93. petri, 94. complexity, 95. mechanism

96. sp\_\_k a chain reaction      *v.* to start something or make it grow, especially suddenly; to emit a tiny piece of fire or electricity
97. hom\_\_\_\_\_us structures      *adj.* having the same or similar structure, position, or function, particularly in different species or organisms; related by common ancestry
98. false cl\_\_m      *v.* to assert that something is true; to demand or request something as one's own; to lay legal or moral right to something; (noun) a demand or assertion of a right or something that one believes to be true
99. sp\_\_k his interest      *v.* to start something or make it grow, especially suddenly; to emit a tiny piece of fire or electricity
100. a large v\_t for fermenting beer      *n.* a large container, especially one used for storing or holding liquids
101. childhood le\_\_\_\_\_ia      *n.* a type of cancer that affects the blood and bone marrow, in which abnormal white blood cells are produced and grow uncontrollably
102. se\_\_\_e down in the town      *v.* to reach an agreement of disagreement
103. d\_m collapsing      *n.* a wall constructed over a river to block the flow of water, mainly used to generate energy
104. di\_\_\_\_\_e prevention      *n.* a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems

ANSWERS: 96. spark, 97. homologous, 98. claim, 99. spark, 100. vat, 101. leukemia, 102. settle, 103. dam, 104. disease

105. cl\_\_m responsibility *v.* to assert that something is true; to demand or request something as one's own; to lay legal or moral right to something; (noun) a demand or assertion of a right or something that one believes to be true
106. 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
107. the m\_\_h of an old religion *n.* an ancient story or set of stories accepted as history, especially explaining the worldview of a people
108. a high per\_\_\_\_ge *n.* the number, amount, or rate of something, which is usually the amount per hundred
109. ease of com\_\_\_\_on *n.* the consideration or examination of the similarities between two or more people or things
110. in\_\_\_t coin *v.* to put something inside something else
111. stress pr\_\_\_\_n *n.* a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues
112. emotional h\_\_e *n.* advertisements and media discussions informing the public about a product and how nice or vital it is
113. eve\_\_\_\_ly become obsolete *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on

ANSWERS: 105. claim, 106. planet, 107. myth, 108. percentage, 109. comparison, 110. insert, 111. protein, 112. hype, 113. eventually



114. AI expert *n.* (abbreviation for artificial intelligence) the theory and development of computer systems capable of doing activities that would ordinarily need human intelligence, such as object recognition, speech recognition, decision-making, and language translation
115. pa\_\_c buying *n.* a sudden strong feeling of fear that cannot be controlled and prevents reasonable thought and action
116. l\_b instrument *n.* a workplace for the conduct of scientific research; a laboratory
117. death from sh\_\_k *n.* a strong feeling or physical reaction to a sudden and unexpected event or experience, especially something unpleasant
118. sheep without a sh\_\_\_\_rd *n.* a person who tends and guards sheep, especially in a rural area
119. di\_\_\_\_d organism *adj.* relating to a cell or organism with two complete sets of chromosomes (= long, thread-like molecules made of DNA and proteins); (noun) cells that contain two complete sets of chromosomes, one from each parent
120. nontechnical as\_\_\_ts of the job *n.* one part or feature of a situation, problem, subject, etc.
121. sh\_\_\_\_rd boy *n.* a person who tends and guards sheep, especially in a rural area
122. con\_\_\_\_\_ial book *adj.* causing a lot of hot public discussion and dispute

ANSWERS: 114. AI, 115. panic, 116. lab, 117. shock, 118. shepherd, 119. diploid, 120. aspect, 121. shepherd, 122. controversial

123. research in\_\_\_\_\_tes *n.* an organization that has a specific purpose, particularly one dealing with science, education, or a particular profession; (verb) to initiate, introduce, or establish something
124. the ma\_\_\_w of a speech *n.* a soft, fatty, vascular substance in the cavities of bones, in which blood cells are produced; the choicest or most essential part of some idea or experience
125. a civil en\_\_\_\_\_er *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
126. pr\_\_\_\_\_n synthesis *n.* a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues
127. con\_\_\_\_\_ial policy *adj.* causing a lot of hot public discussion and dispute
128. for tr\_\_\_\_\_l reasons *adj.* of little value or importance
129. a pa\_\_c reaction *n.* a sudden strong feeling of fear that cannot be controlled and prevents reasonable thought and action
130. ce\_\_\_\_\_ar and molecular biology *adj.* of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires
131. me\_\_\_\_\_n name *v.* to speak or write about something or someone briefly

ANSWERS: 123. institute, 124. marrow, 125. engineer, 126. protein, 127. controversial, 128. trivial, 129. panic, 130. cellular, 131. mention

132. ef\_\_\_\_\_nt operation *adj.* performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials
133. mo\_\_\_\_\_r furniture *adj.* consisting of distinct or separable parts or units that can be joined together and form a complete whole
134. an\_\_\_\_\_t stories *adj.* relating to the long ago, particularly the historical period preceding the fall of the Western Roman Empire; very old
135. r\_p a notebook apart *v.* to tear something or be torn violently or suddenly
136. in\_\_\_\_\_te a lawsuit *n.* an organization that has a specific purpose, particularly one dealing with science, education, or a particular profession; (verb) to initiate, introduce, or establish something
137. hom\_\_\_\_\_us genes *adj.* having the same or similar structure, position, or function, particularly in different species or organisms; related by common ancestry
138. de\_\_'l's advocate *n.* a supernatural being typically represented in belief systems as an evil or mischievous spirit, often used metaphorically to describe a person or thing that is harmful, dangerous, or wicked
139. ac\_\_\_e each other *v.* to charge or criticize someone with a crime or wrongdoing

ANSWERS: 132. efficient, 133. modular, 134. ancient, 135. rip, 136. institute, 137. homologous, 138. devil, 139. accuse

140. hi\_\_\_k a helicopter *v.* to seize control of an airplane or other vehicle during an operation, especially with violence
141. media h\_\_\_e *n.* advertisements and media discussions informing the public about a product and how nice or vital it is
142. ant\_\_\_\_\_ize God *v.* to attribute human characteristics, emotions, and abilities to non-human entities
143. double-st\_\_\_d DNA *n.* a very thin natural or synthetic thread, wire, hair, etc.; (verb) to leave or drive a vessel, fish, etc., aground or ashore
144. sh\_\_\_e a person aside *v.* to push someone or something in a rough way
145. dr\_\_\_n in a bath *v.* to die or cause to die by being unable to breathe underwater
146. a st\_\_\_d of fine hair *n.* a very thin natural or synthetic thread, wire, hair, etc.; (verb) to leave or drive a vessel, fish, etc., aground or ashore
147. W\_\_\_e off dirt *v.* to clean or dry something by rubbing with a piece of cloth or paper or one's hand and removing dirt, food, or liquid
148. acute le\_\_\_\_ia *n.* a type of cancer that affects the blood and bone marrow, in which abnormal white blood cells are produced and grow uncontrollably
149. 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

ANSWERS: 140. hijack, 141. hype, 142. anthropomorphize, 143. strand, 144. shove, 145. drown, 146. strand, 147. wipe, 148. leukemia, 149. bacteria

150. the rem\_\_\_\_\_le breadth of knowledge  
*adj.* worthy of attention because unusual or special
151. a ve\_\_\_\_\_le writer  
*adj.* able to do many things in different fields; having many talents
152. hi\_\_\_k a phone number  
*v.* to seize control of an airplane or other vehicle during an operation, especially with violence
153. rem\_\_\_\_\_le achievement  
*adj.* worthy of attention because unusual or special
154. off\_\_\_\_\_et inhibition  
*adj.* referring to something that misses the intended goal or objective; not reaching or affecting the intended target, often used to describe a weapon, technology, or medical treatment
155. con\_\_\_\_\_ion in English  
*n.* an informal talk between two or more people to exchange their views, ideas, information, etc.
156. pre-Christian an\_\_\_\_\_t  
*adj.* relating to the long ago, particularly the historical period preceding the fall of the Western Roman Empire; very old
157. at inc\_\_\_\_\_le speed  
*adj.* unbelievable; enormous
158. inc\_\_\_\_\_le amount  
*adj.* unbelievable; enormous
159. medical l\_b  
*n.* a workplace for the conduct of scientific research; a laboratory
160. fl\_\_\_y graphics  
*adj.* attractive or impressive by being bright, expensive, large, etc.; (used especially of clothes) marked by conspicuous display

ANSWERS: 150. remarkable, 151. versatile, 152. hijack, 153. remarkable, 154. off-target, 155. conversation, 156. ancient, 157. incredible, 158. incredible, 159. lab, 160. flashy

161. cellular signaling pa\_\_\_\_ys      *n.* a track that constitutes or serves as a path; an approach or a way of doing something
162. off\_\_\_\_\_et effects      *adj.* referring to something that misses the intended goal or objective; not reaching or affecting the intended target, often used to describe a weapon, technology, or medical treatment
163. de\_\_l horns      *n.* a supernatural being typically represented in belief systems as an evil or mischievous spirit, often used metaphorically to describe a person or thing that is harmful, dangerous, or wicked
164. pa\_\_\_\_\_y to understanding      *n.* a track that constitutes or serves as a path; an approach or a way of doing something
165. pa\_\_\_t application      *n.* a legal document that grants an inventor exclusive rights to their invention for a certain period of time; the invention or process for which a patent has been granted
166. alpha he\_\_x      *n.* a three-dimensional spiral shape or structure, particularly like that of a spring or a DNA molecule
167. a nation's right to go\_\_\_n      *v.* to legally control and direct a country, city, group of people, etc. and be responsible for introducing new laws, organizing and maintaining public services

ANSWERS: 161. pathway, 162. off-target, 163. devil, 164. pathway, 165. patent, 166. helix, 167. govern

168. da\_\_\_e a relationship      *v.* to harm or cause injury to something or someone, often resulting in decreased value or functionality; to impair or negatively affect something, such as a reputation or relationship; (noun) harm or injury that is caused to a person, thing, or entity
169. the dr\_\_\_l hit the well      *n.* a tool or machine used for making round holes or driving fasteners; a training or practice
170. tr\_\_\_y problem      *adj.* requiring care and skill because challenging to do or deal with
171. e\_\_\_t a video      *v.* to prepare written material for publication by correcting, condensing, or otherwise modifying it
172. pr\_\_\_\_\_or to serotonin      *n.* a person or thing that comes before another of the same kind and that contributes to or influences its growth
173. d\_m-building program      *n.* a wall constructed over a river to block the flow of water, mainly used to generate energy
174. c\_\_w each word      *v.* to crush or grind something, especially food, with the teeth and then swallow it
175. res\_\_\_\_\_le for a customer service      *adj.* answerable or accountable for something within one's power, control, or management
176. com\_\_\_\_\_on number      *n.* a collection of things that have been combined; an assemblage of separate parts or qualities

ANSWERS: 168. damage, 169. drill, 170. tricky, 171. edit, 172. precursor, 173. dam, 174. chew, 175. responsible, 176. combination

177. 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
178. cruise mi\_\_\_\_\_e attack *n.* a weapon, such as a rocket or guided projectile, that is self-propelled and directed by remote control or by an internal guidance mechanism
179. li\_\_\_\_\_e renewal *n.* an official permission or authorization to do, use, or own something; a legal document that grants the holder the right to perform certain activities, such as driving a car, practicing a profession, or using a particular product or service
180. inf\_\_\_\_\_ure cost *n.* the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies
181. attract br\_\_d attention *adj.* very wide; general
182. he\_\_y breakfast *adj.* large, bulky, and heavy; impressively large, substantial, or powerful; large in amount, extent, or significance
183. apply AI technology to art *n.* (abbreviation for artificial intelligence) the theory and development of computer systems capable of doing activities that would ordinarily need human intelligence, such as object recognition, speech recognition, decision-making, and language translation

ANSWERS: 177. planet, 178. missile, 179. license, 180. infrastructure, 181. broad, 182. hefty, 183. AI



184. bo\_\_\_e back from failure *v.* to cause to move up or away after hitting a surface; to spring back
185. build a mo\_\_\_\_r system *adj.* consisting of distinct or separable parts or units that can be joined together and form a complete whole
186. com\_\_\_\_\_ty theory *n.* the state or quality of being complicated or intricate and difficult to understand
187. a ca\_\_\_\_\_st in the process of hydrolysis *n.* a person or thing that causes an important event to happen or changes the current situation rapidly; (chemistry) a substance that initiates or accelerates a chemical reaction without being changed itself
188. sh\_\_k-resistant *n.* a strong feeling or physical reaction to a sudden and unexpected event or experience, especially something unpleasant
189. me\_\_\_\_\_n in a report *v.* to speak or write about something or someone briefly
190. ac\_\_\_e his rudeness *v.* to charge or criticize someone with a crime or wrongdoing
191. ge\_\_\_e analyses *n.* the complete set or sequence of genes of a human, animal, plant, or other living things
192. ant\_\_\_\_\_ize animals *v.* to attribute human characteristics, emotions, and abilities to non-human entities
193. a sexual u\_\_\_e *v.* to spur on or encourage someone, especially by cheers and shouts; (noun) a strong desire or impulse, especially one that is difficult to control or resist

ANSWERS: 184. bounce, 185. modular, 186. complexity, 187. catalyst, 188. shock, 189. mention, 190. accuse, 191. genome, 192. anthropomorphize, 193. urge

194. improved student ou\_\_\_\_es                    *n.*    the result or effect of an action, event, etc.
195. co\_\_\_\_ce her to go with us                    *v.*    to persuade someone or make someone believe that something is true
196. spread of the vi\_\_s                            *n.*    a tiny infectious organic material that causes disease in people, animals, and plants
197. dog le\_\_h                                        *n.*    a long, flexible cord or chain used to restrain or control a dog (or other animals); a figurative tool used to control or limit someone's behavior or actions
198. e\_\_t a history book                            *v.*    to prepare written material for publication by correcting, condensing, or otherwise modifying it

ANSWERS: 194. outcome, 195. convince, 196. virus, 197. leash, 198. edit

## Session 3: Fill in the Blanks

1. The symptoms of \_\_\_\_\_ may include fatigue, weakness, and fever.  
*n.* a type of cancer that affects the blood and bone marrow, in which abnormal white blood cells are produced and grow uncontrollably
2. The minister decided to review its \_\_\_\_\_ public works projects.  
*adj.* exceedingly large or extensive; (noun) any of numerous extinct elephants widely distributed in the Pleistocene
3. There are various ways to ward off the \_\_\_\_\_ including prayer and holy water.  
*n.* a supernatural being typically represented in belief systems as an evil or mischievous spirit, often used metaphorically to describe a person or thing that is harmful, dangerous, or wicked
4. His poem has a very significant \_\_\_\_\_.  
*n.* something that is inferred or indirectly stated; the act or fact of being involved in something
5. The joke fell \_\_\_\_\_ and didn't get any laughs from the audience.  
*adj.* referring to something that misses the intended goal or objective; not reaching or affecting the intended target, often used to describe a weapon, technology, or medical treatment
6. They have been living near water since \_\_\_\_\_ times.  
*adj.* relating to the long ago, particularly the historical period preceding the fall of the Western Roman Empire; very old
7. The company has filed for a \_\_\_\_\_ to protect its new invention.  
*n.* a legal document that grants an inventor exclusive rights to their invention for a certain period of time; the invention or process for which a patent has been granted

ANSWERS: 1. leukemia, 2. mammoth, 3. devil, 4. implication, 5. off-target, 6. ancient, 7. patent

8. The \_\_\_\_\_ box of books was too heavy to lift on my own.  
*adj.* large, bulky, and heavy; impressively large, substantial, or powerful; large in amount, extent, or significance
9. I \_\_\_\_ that you know it.  
*v.* to risk money on the result of an event or a competition, such as a race or game, to get more money; to have faith or confidence in something
10. The lawyer's \_\_\_\_ for the case was \$10,000.  
*n.* a sum of money charged for a particular service
11. An infected person in the hospital will likely pass the \_\_\_\_\_ to others.  
*n.* a tiny infectious organic material that causes disease in people, animals, and plants
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. I've included the two designs for a \_\_\_\_\_.  
*n.* the consideration or examination of the similarities between two or more people or things
14. He got an electric \_\_\_\_\_ at work.  
*n.* a strong feeling or physical reaction to a sudden and unexpected event or experience, especially something unpleasant
15. Computers have a \_\_\_\_\_ structure, making it easy to upgrade essential functions.  
*adj.* consisting of distinct or separable parts or units that can be joined together and form a complete whole

ANSWERS: 8. hefty, 9. bet, 10. fee, 11. virus, 12. lab, 13. comparison, 14. shock, 15. modular

16. The \_\_\_\_\_ to the safe was a secret.
- n.* a collection of things that have been combined; an assemblage of separate parts or qualities
17. He forcibly \_\_\_\_\_ the flyer into my bag.
- v.* to push someone or something in a rough way
18. What is the \_\_\_\_\_ of the consumption tax in the United States?
- n.* the number, amount, or rate of something, which is usually the amount per hundred
19. The global financial crisis acted as a \_\_\_\_\_ to unite the country.
- n.* a person or thing that causes an important event to happen or changes the current situation rapidly; (chemistry) a substance that initiates or accelerates a chemical reaction without being changed itself
20. His \_\_\_\_\_ showed highly positive results.
- n.* the scientific test conducted to observe what happens and gain new knowledge
21. They will \_\_\_\_\_ between various emotional states.
- v.* to cause to move up or away after hitting a surface; to spring back
22. Human females normally have two X \_\_\_\_\_.
- n.* a long and string-like DNA molecule containing the part or all of the genetic material of an organism that controls what an animal or plant is like
23. The doctor diagnosed him with a rare \_\_\_\_\_ that had no known cure.
- n.* a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems

ANSWERS: 16. combination, 17. shoved, 18. percentage, 19. catalyst, 20. experiments, 21. bounce, 22. chromosomes, 23. disease

24. The museum houses a \_\_\_\_\_ collection of Celtic artifacts.

*adj.* extremely interesting

25. The project's \_\_\_\_\_ made it difficult for the team to complete it on time.

*n.* the state or quality of being complicated or intricate and difficult to understand

26. The human \_\_\_\_\_ contains approximately three billion chemical base pairs.

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

27. He accumulated wealth across a \_\_\_\_\_ spectrum of assets.

*adj.* very wide; general

28. The incident \_\_\_\_\_ a political controversy.

*v.* to make something happen suddenly; to cause something such as a device, machine, etc. to function

29. They awaited news of the \_\_\_\_\_ of the election.

*n.* the result or effect of an action, event, etc.

30. The soup was made with bone \_\_\_\_\_ giving it a rich and savory flavor.

*n.* a soft, fatty, vascular substance in the cavities of bones, in which blood cells are produced; the choicest or most essential part of some idea or experience

31. The election was a \_\_\_\_\_ success for the Whigs.

*adj.* worthy of attention because unusual or special

32. I am considering what I should do to \_\_\_\_\_ him.

*v.* to persuade someone or make someone believe that something is true

ANSWERS: 24. fascinating, 25. complexity, 26. genome, 27. broad, 28. triggered, 29. outcome, 30. marrow, 31. remarkable, 32. convince

33. During the surgery, the doctor had to be extremely cautious not to \_\_\_\_\_ a blood vessel.
- v. to harm or cause injury to something or someone, often resulting in decreased value or functionality; to impair or negatively affect something, such as a reputation or relationship; (noun) harm or injury that is caused to a person, thing, or entity
34. She \_\_\_\_\_ a new chapter into her manuscript.
- v. to put something inside something else
35. This factory employs a \_\_\_\_\_ manufacturing system.
- adj. of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires
36. I \_\_\_\_\_ to him that I had seen his sister at the grocery store earlier that day.
- v. to speak or write about something or someone briefly
37. The company was involved in a \_\_\_\_\_ scheme to scam customers out of money.
- adj. involving deception or dishonesty; intended to deceive or defraud; false or misleading
38. My dog loves to \_\_\_\_\_ on bones.
- v. to crush or grind something, especially food, with the teeth and then swallow it
39. The restaurant owner bought a large \_\_\_\_\_ of cooking oil for frying.
- n. a large container, especially one used for storing or holding liquids
40. When the first molecule in the \_\_\_\_\_ receives a signal, it activates other molecules.
- n. a track that constitutes or serves as a path; an approach or a way of doing something

ANSWERS: 33. damage, 34. inserted, 35. cellular, 36. mentioned, 37. fraudulent, 38. chew, 39. vat, 40. pathway

41. She's a \_\_\_\_\_ pet owner who ensures her dog gets enough exercise and a healthy diet.  
*adj.* answerable or accountable for something within one's power, control, or management
42. With the financial bubble bursting, the \_\_\_\_\_ of economic growth in investment banking collapsed.  
*n.* an ancient story or set of stories accepted as history, especially explaining the worldview of a people
43. The witness \_\_\_\_\_ the defendant of committing the robbery.  
*v.* to charge or criticize someone with a crime or wrongdoing
44. The DNA molecule is shaped like a double \_\_\_\_\_.  
*n.* a three-dimensional spiral shape or structure, particularly like that of a spring or a DNA molecule
45. His professional experience includes all \_\_\_\_\_ of media production.  
*n.* one part or feature of a situation, problem, subject, etc.
46. The break in the \_\_\_\_ threatened the valley.  
*n.* a wall constructed over a river to block the flow of water, mainly used to generate energy
47. Floods have the potential to \_\_\_\_\_ any subsurface animals easily.  
*v.* to die or cause to die by being unable to breathe underwater
48. \_\_\_\_\_ recombination is a process that can occur during DNA repair.  
*adj.* having the same or similar structure, position, or function, particularly in different species or organisms; related by common ancestry

ANSWERS: 41. responsible, 42. myth, 43. accused, 44. helix, 45. aspects, 46. dam, 47. drown, 48. Homologous



49. Sulfur dioxide and nitrogen oxides are the primary \_\_\_\_\_ of acid rain.  
*n.* a person or thing that comes before another of the same kind and that contributes to or influences its growth
50. The firm has grown into a large \_\_\_\_\_ manufacturing.  
*adj.* relating to or connected with chemistry;
51. We have discussed the entirety of this \_\_\_\_\_ problem.  
*adj.* requiring care and skill because challenging to do or deal with
52. The bankruptcy of the giant conglomerate \_\_\_\_\_ turmoil in the stock market.  
*v.* to start something or make it grow, especially suddenly; to emit a tiny piece of fire or electricity
53. During transit, the stuff may \_\_\_\_ off the luggage tag.  
*v.* to tear something or be torn violently or suddenly
54. Her response revealed \_\_\_\_\_ idiocy.  
*adj.* unbelievable; enormous
55. The golfer recorded an \_\_\_\_\_ distance.  
*adj.* extremely surprising, especially in a way that you like or admire
56. The vaccination does not necessarily make you completely \_\_\_\_\_.  
*adj.* protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells
57. This remote \_\_\_\_\_ is rarely visited.  
*n.* a particular location or place; a small round or roundish area, differing in color or feels from the surface around it

ANSWERS: 49. precursors, 50. chemical, 51. tricky, 52. sparked, 53. rip, 54. incredible, 55. amazing, 56. immune, 57. spot

58. Necessity is the mother of \_\_\_\_\_.
- n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
59. I heard several melodic \_\_\_\_\_ simultaneously.
- n.* a very thin natural or synthetic thread, wire, hair, etc.; (verb) to leave or drive a vessel, fish, etc., aground or ashore
60. The body needs a certain amount of \_\_\_\_\_ to build and repair tissues.
- n.* a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues
61. 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
62. I need to \_\_\_\_\_ this document before submitting it to my boss.
- v.* to prepare written material for publication by correcting, condensing, or otherwise modifying it
63. I want to buy a reliable car rather than a \_\_\_\_\_ one.
- adj.* attractive or impressive by being bright, expensive, large, etc.; (used especially of clothes) marked by conspicuous display
64. Aging societies tend to require huge costs for \_\_\_\_\_ maintenance.
- n.* the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies
65. This region has many \_\_\_\_\_ offering higher education.
- n.* an organization that has a specific purpose, particularly one dealing with science, education, or a particular profession; (verb) to initiate, introduce, or establish something

ANSWERS: 58. invention, 59. strands, 60. protein, 61. petri, 62. edit, 63. flashy, 64. infrastructure, 65. institutes

66. The military launched a ballistic \_\_\_\_\_ at the enemy's stronghold.  
*n.* a weapon, such as a rocket or guided projectile, that is self-propelled and directed by remote control or by an internal guidance mechanism
67. The problem seemed \_\_\_\_\_ initially, but it became a significant issue.  
*adj.* of little value or importance
68. I don't want to \_\_\_\_\_ for second best.  
*v.* to reach an agreement of disagreement
69. The evolution of processors has dramatically improved the performance of \_\_\_\_.  
*n.* (abbreviation for artificial intelligence) the theory and development of computer systems capable of doing activities that would ordinarily need human intelligence, such as object recognition, speech recognition, decision-making, and language translation
70. The children \_\_\_\_\_ their stuffed animals and gave them personalities.  
*v.* to attribute human characteristics, emotions, and abilities to non-human entities
71. He made a desperate effort to \_\_\_\_\_ an airliner.  
*v.* to seize control of an airplane or other vehicle during an operation, especially with violence
72. He wants to \_\_\_\_\_ ownership of the abandoned property.  
*v.* to assert that something is true; to demand or request something as one's own; to lay legal or moral right to something; (noun) a demand or assertion of a right or something that one believes to be true
73. 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

ANSWERS: 66. missile, 67. trivial, 68. settle, 69. AI, 70. anthropomorphized, 71.

hijack, 72. claim, 73. develop

74. He's a \_\_\_\_\_ actor who has acted in various parts.

*adj.* able to do many things in different fields; having many talents

75. 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

76. The participation of oil-producing countries in the war caused \_\_\_\_\_ in the financial markets.

*n.* a sudden strong feeling of fear that cannot be controlled and prevents reasonable thought and action

77. He discovered unique \_\_\_\_\_ for photochemical reactions.

*n.* a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction

78. \_\_\_\_\_ design has become more focused on human nature aspect than ever before.

*adj.* of or relating to or resulting from industry

79. The \_\_\_\_\_ cells contain two sets of chromosomes, one from each parent, allowing for genetic variation.

*adj.* relating to a cell or organism with two complete sets of chromosomes (= long, thread-like molecules made of DNA and proteins); (noun) cells that contain two complete sets of chromosomes, one from each parent

80. The \_\_\_\_\_ will repair my telephone tomorrow morning.

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

ANSWERS: 74. versatile, 75. planet, 76. panic, 77. mechanisms, 78. Industrial, 79. diploid, 80. engineer

81. Your \_\_\_\_\_ reflects your thoughts.

- n.* an informal talk between two or more people to exchange their views, ideas, information, etc.

82. The audience was not duped by the media's \_\_\_\_\_ around the event.

- n.* advertisements and media discussions informing the public about a product and how nice or vital it is

83. The \_\_\_\_\_ dog helped keep the sheep in line and protect them from predators.

- n.* a person who tends and guards sheep, especially in a rural area

84. The regulations \_\_\_\_\_ medical malpractice claims are rigorous.

- v.* to legally control and direct a country, city, group of people, etc. and be responsible for introducing new laws, organizing and maintaining public services

85. Scientific knowledge will \_\_\_\_\_ significantly with the power of AI.

- v.* to go or move forward; to develop in a positive way

86. Several military \_\_\_\_\_ programs have become popular methods of exercise.

- n.* a tool or machine used for making round holes or driving fasteners; a training or practice

87. The issue of the death penalty is highly \_\_\_\_\_.

- adj.* causing a lot of hot public discussion and dispute

88. The sheep had a thick, \_\_\_\_\_ coat to keep it warm in the winter.

- adj.* covered with thick, soft, and often curly hair or fibers; lacking clarity or precision

ANSWERS: 81. conversation, 82. hype, 83. shepherd's, 84. governing, 85. advance, 86. drill, 87. controversial, 88. woolly

89. Please \_\_\_\_\_ your sweat with this towel.

- v.* to clean or dry something by rubbing with a piece of cloth or paper or one's hand and removing dirt, food, or liquid

90. The corporation \_\_\_\_\_ dominated the entire tobacco business.

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

91. Before driving, ensure you have a valid driver's \_\_\_\_\_.

- n.* an official permission or authorization to do, use, or own something; a legal document that grants the holder the right to perform certain activities, such as driving a car, practicing a profession, or using a particular product or service

92. The lobbyist \_\_\_\_\_ Congress not to approve the measure.

- v.* to spur on or encourage someone, especially by cheers and shouts; (noun) a strong desire or impulse, especially one that is difficult to control or resist

93. Our latest project is still at the \_\_\_\_\_ stage.

- n.* an animal organism in the early stages of growth, either in its mother's womb or in an egg, or a plant that is developing in a seed

94. The new washing machine is much more \_\_\_\_\_ than the old one.

- adj.* performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials

95. \_\_\_\_\_ 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

ANSWERS: 89. wipe, 90. eventually, 91. license, 92. urged, 93. embryo, 94. efficient, 95. Bacteria

96. The \_\_\_\_\_ for applying for a visa can be lengthy and complicated.
- n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
97. \_\_\_\_\_ elections were held in several European countries.
- adj.* belonging to or used by a group rather than individuals; for common use
98. Children often \_\_\_\_\_ parents with this head cold.
- v.* to affect a person, an animal, or a plant with a disease-causing organism
99. Make sure to put the \_\_\_\_\_ on your dog before walking.
- n.* a long, flexible cord or chain used to restrain or control a dog (or other animals); a figurative tool used to control or limit someone's behavior or actions

ANSWERS: 96. process, 97. Communal, 98. infect, 99. leash