

# Englist.me



## Vocabulary Builder Reference from...

*Brendan Rogers and Jessica Howard: What's hidden in Arctic ice? | TED Talk*

[https://www.ted.com/talks/brendan\\_rogers\\_and\\_jessica\\_howard\\_what\\_s\\_hidden\\_in\\_arctic\\_ice](https://www.ted.com/talks/brendan_rogers_and_jessica_howard_what_s_hidden_in_arctic_ice)

### All Words

#### IMPORTANT

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## Session 1: Word List

### miner

*n.* a person who works in a mine (= excavation in the Earth from which ores and minerals are extracted), especially one who extracts coal, minerals, or precious metals from the Earth

*synonym* : digger, excavator, miner

(1) **miner** strike, (2) **miner** industry

The coal **miner** worked tirelessly to extract valuable minerals from deep underground.

### 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.

### discovery

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

*synonym* : finding, uncovering, detection

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

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

## tradition

*n.* a belief, custom, or way of doing something that has been passed down from generation to generation within a group or society

*synonym* : custom, practice, ritual

(1) a **tradition** of a culture, (2) against **tradition**

It is a **tradition** in many families to have a big Thanksgiving dinner with all their relatives.

## nation

*n.* a large organized community of people living in a particular country or region and having a particular culture

*synonym* : country, state, sovereign entity

(1) **nation-state**, (2) a seafaring **nation**

The **nation** of Japan is known for its unique culture and advanced technology.

## uncover

*v.* to remove the cover from something; to discover something previously unseen or hidden

*synonym* : disclose, reveal, unveil

(1) **uncover** a potential problem, (2) **uncover** the truth

He continued his investigation and soon **uncovered** another crime.

## preserve

*v.* to keep or maintain a particular quality, feature, etc., especially to prevent it from decaying, being damaged, or being destroyed

*synonym* : conserve, care for, maintain

(1) **preserve** my strength, (2) **preserve** a country's heritage

They worked hard to **preserve** the nature of their native lands.

## 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.

## **calf**

*n.* a young cow, bull, or other domestic bovine animals

*synonym* : baby cow, heifer, yearling

(1) baby **calf**, (2) a **calf** elephant

The newborn **calf** stood on wobbly legs, trying to find its mother's milk.

## **arctic**

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

*synonym* : cold, frozen, polar

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

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

## **bury**

*v.* to place a dead body in the ground, grave, or tomb

*synonym* : entomb, sink, forget

(1) **bury** in the earth, (2) **bury** emotion

There is plenty of space to **bury** everyone.

## **hemisphere**

*n.* half of the terrestrial globe; half of a sphere

(1) northern **hemisphere**, (2) cerebral **hemisphere**

This weather pattern is unique to the southern **hemisphere**.

## **permafrost**

*n.* a layer of soil that is permanently below freezing, usually in polar regions

(1) **permafrost** area, (2) thawing **permafrost**

**Permafrost** is crucial to soil stability in arctic areas.

## **thaw**

*v.* to become less rigid or hostile; to melt, soften, or become more friendly

*synonym* :

melt, defrost, unfreeze

(1) **thaw** out a glacier, (2) **thaw** relations between countries  
The sun was beginning to **thaw** the frozen ground.

## typical

*adj.* having the usual characteristics or traits of a specific group of things

*synonym*: characteristic, usual, distinctive

(1) **typical** leader, (2) fairly **typical** symptoms

This artwork is **typical** of her work.

## locate

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

*synonym*: discover, find, place

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

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

## biology

*n.* the scientific study of life and the natural processes of living things

(1) evolutionary **biology**, (2) cell and molecular **biology**

In junior high school, we had to dissect a frog in **biology** class.

## crystal

*n.* a solid material with many even sides that is formed naturally when the substance becomes solid and has a highly regular atomic structure; clear and colorless glass made of almost pure silica

*synonym*: quartz

(1) liquid **crystal**, (2) **crystal** analyses

A vast **crystal** chandelier glittered brightly above us.

## moisture

*n.* small amounts of liquid, especially water, that are present in or absorbed by a substance

*synonym*: dampness, humidity, wetness

(1) **moisture** level, (2) lot of **moisture**

My hair looks greasy because there is too much **moisture** in the air.

## 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.

## decompose

*v.* to break down or cause to break down over time into simpler substances or elements

*synonym* : break down, rot, spoil

(1) **decompose** matter, (2) **decompose** into simpler molecules

After the earthquake, many of the buildings in the city were left in ruins and began to **decompose**.

## tissue

*n.* an ensemble of similar cells of the animal or plant that together carry out a specific function

*synonym* : structure, texture, anatomy

(1) a facial **tissue**, (2) loss of muscle **tissue**

The researcher separated the nervous **tissue** for microscopic examinations.

## operate

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

*synonym* : work, use, employ

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

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

## metabolism

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

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

Better sleep leads to increased **metabolism**.

## subfreezing

*adj.* below the freezing point (32 F or 0 C)

*synonym* : below-freezing, icy, frigid

(1) live in a **subfreezing** climate, (2) **subfreezing** temperature

The temperature outside was **subfreezing**, and I could feel the chill in my bones.

## temperature

*n.* the degree of hotness or coldness of a thing or place  
*synonym*: climate, warmth, degree

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

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

## 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.

## rely

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

*synonym*: depend, count, lean

(1) **rely** on convenience stores, (2) **rely** entirely on him  
Babies heavily **rely** on others for food.

## fossilized

*adj.* transformed into a fossil (= something preserved in rock for a very long period) or preserved in the form of a fossil; antiquated or inflexible

*synonym*: petrified, ossified, preserved

(1) obsolete **fossilized** ways, (2) a **fossilized** grove

The dinosaur bones were so old that they had been wholly **fossilized**, turning to stone over millions of years.

## skeleton

*n.* the structure of bones in a human or animal body, or a framework of bones or other material that supports a plant

*synonym*: bones, frame, structure

(1) the steel **skeleton** of a building, (2) **skeleton** hand  
Scientists studied the ancient **skeleton** to learn more about the creature's anatomy.

## extrapolate

*v.* to guess or think about what might happen or estimate something using the facts that you have now

*synonym*: deduce, reason, infer

(1) **extrapolate** the results, (2) **extrapolate** animal dose  
This predictive model mechanically **extrapolates** past trends into the future.

## 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.

## frame

*n.* a strong border or structure of the wood, metal, etc. that surrounds something such as a picture, door, or window

*synonym*: body, skeleton, scaffolding

(1) a picture **frame**, (2) the **frame** of the policy

The detective looked for fingerprints on the window **frame**.

## pup

*n.* a young dog, seal, or other animals

*synonym*: puppy, whelp, cub

(1) **pup** company, (2) playful **pup**

The little **pup** was so cute, with big, floppy ears and a wagging tail.

## feast

*n.* a large meal, typically one served on a special occasion

*synonym*: banquet, celebration, dinner

(1) a **feast** for the eyes, (2) a nightly **feast**

The royal **feast** celebrated the harvest, and the community enjoyed it.

## salmon

*n.* a type of fish that is commonly found in the North Atlantic and North Pacific oceans

*synonym*: fish, trout, salmonid

(1) **salmon** fishery, (2) **salmon** migration

Grilled **salmon** is a popular dish at summer barbecues.

## den

*n.* a wild animal's lair or hiding places, such as a fox or bear

*synonym*: lair, burrow, nest

(1) gambling **den**, (2) bear **den**

The fox had dug a **den** in the side of the hill, where it could rest and hide from predators.

## nestle

*v.* to settle comfortably or cozily into a place

*synonym*: snuggle, cuddle, curl up

(1) **nestle** deeper against him, (2) **nestle** in a cozy spot

The cat **nestled** in my lap and fell asleep.

## collapse

*v.* to fall down or give way suddenly, often after breaking apart

*synonym*: tumble, spill, bankruptcy

(1) the stock market **collapsed**, (2) ready to **collapse**

The roof finally **collapsed** after three days and three nights of heavy snowfall.

## reindeer

*n.* a large deer with branched antlers found in northern regions, often domesticated and used for transportation or as a source of food

*synonym*: caribou, elk, deer

(1) red-nosed **reindeer**, (2) domesticated **reindeer**

The Sami people have been herding **reindeer** in the Arctic for centuries, using them for food, transportation, and clothing.

## herder

*n.* a person who takes care of and manages a herd of livestock, such as cows, sheep, or goats

*synonym*: shepherd, rancher, drover

(1) cattle **herder**, (2) seminomadic **herders**



The sheep **herder** led his flock through the hills, keeping a watchful eye on them at all times.

## encounter

*v.* to face something, particularly something unpleasant or difficult, while attempting to do something else; to meet, especially unexpectedly

*synonym* : meet, run into, come across

(1) **encounter** a crisis, (2) **encounter** a storm

I'm prepared to **encounter** challenges throughout this adventure.

## unmistakable

*adj.* clearly recognizable; impossible to mistake or misunderstand

*synonym* : apparent, clear, definite

(1) find **unmistakable** evidence, (2) **unmistakable** difference

His talent for singing is **unmistakable**.

## cave

*n.* a large hole in the side of a hill, cliff, mountain, or under the ground

*synonym* : cavern, grotto, burrow

(1) domiciliary **caves**, (2) the mouth of the **cave**

Bats reside in sheltered **caves**.

## extinct

*adj.* no longer in existence

*synonym* : dead, obsolete, abolished

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

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

## skeletal

*adj.* of, relating to, or forming a skeleton (= frame of bones); very thin or emaciated

*synonym* : bony, emaciated, gaunt

(1) **skeletal** system, (2) **skeletal** muscles

The older man was skinny and **skeletal** and not in good health.

## incomplete

*adj.* not having all the necessary or appropriate parts; not yet finished

*synonym* : undone, unfinished, insufficient

(1) **incomplete** information, (2) customer with **incomplete** credit histories

The researcher criticized the study due to **incomplete** data.

## yield

*n.* the total output of crops, profits, etc. that are produced;  
*(verb)* to produce or supply helpful something, such as a profit, an amount of food, or information

*synonym* : proceeds, harvest, output

(1) corn **yield**, (2) the **yield** on the bond

The company's stock gives a high **yield**.

## incredible

*adj.* unbelievable; enormous

*synonym* : unbelievable, fantastical, inconceivable

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

Her response revealed **incredible** idiocy.

## identify

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

*synonym* : determine, specify, recognize

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

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

## reconstruct

*v.* to build or form something again that has been damaged or destroyed

*synonym* : rebuild, revamp, reorganize

(1) **reconstruct** an image, (2) **reconstruct** the original text

They've decided to **reconstruct** a ruined castle.

## sequence

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

*synonym* : arrangement, succession, series

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

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

## extraordinary

*adj.* exceptional, unexpected, very unusual; surpassing the ordinary or usual

*synonym*: exceptional, noteworthy, astonishing

(1) **extraordinary** ability, (2) **extraordinary** weather

He narrated the **extraordinary** story of his adventure.

## kingdom

*n.* the country ruled by a king or queen

*synonym*: empire, realm, land

(1) establish his **kingdom**, (2) a subordinate **kingdom**

By remaining neutral, this **kingdom** continued to exist.

## 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.

## tundra

*n.* a vast, treeless, and typically frozen plain in the Arctic regions, where the subsoil is permanently frozen

*synonym*: arctic plain, permafrost, polar desert

(1) the Siberian **tundra**, (2) **tundra** biome

The Arctic **tundra** is a vast and desolate landscape with few signs of life.

## encase

*v.* to enclose or cover something in a protective or decorative layer

*synonym*: encircle, enclose, enclasp

(1) **encase** in glass, (2) **encase** his feet

They **encased** the fragile vase in bubble wrap to protect it during shipping.

## squirrel

*n.* a small to medium-sized rodent with a bushy tail, found in almost every part of the world

*synonym*: rodent, chipmunk, tree-dweller

(1) agile **squirrel**, (2) gray **squirrel**

The **squirrels** in the park were very friendly and came right up to us looking for food.

## burrow

*v.* to excavate a hole or make a tunnel in the ground by digging, typically for use as a dwelling of an animal

*synonym*: tunnel, dig, excavate

(1) **burrow** through the forest, (2) **burrow** into a mystery

You can't **burrow** through solid metal.

## prehistoric

*adj.* belonging to or existing in times before recorded history; no longer fashionable

*synonym*: ancient, primitive, archaic

(1) **prehistoric** settlements, (2) **prehistoric** times

Scientists often fail to date archeological or **prehistorical** findings.

## climate

*n.* the weather in a particular location averaged over some long period

*synonym*: atmosphere, weather, environment

(1) a cold **climate**, (2) effects of **climate** change

**Climate** and weather have an impact on every part of our lifestyles.

## frequency

*n.* an ordered array of colors into which a light beam can be split

*synonym*: recurrence, repetition, regularity

(1) **frequency** band, (2) high **frequency**

The oscillator hunts for the correct **frequency**.

## extreme

*adj.* very great in amount or degree

*synonym*: farthestmost, outermost, fierce

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

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

## lightning

*n.* a flash, or several flashes, of light that accompanies an electric discharge in the atmosphere, or something resembling such a flash

*synonym* : bolt, electrical discharge

(1) streaks of **lightning**, (2) **lightning** air strike

The human eye is **lightning-fast** in recognizing objects.

## wildfire

*n.* a large, uncontrolled fire that spreads quickly through a natural area such as a forest, grassland, or mountain slope

*synonym* : blaze, bonfire, flame

(1) **wildfire** spread, (2) arson-caused **wildfire**

The **wildfire** destroyed hundreds of homes and forced thousands of people to evacuate.

## soil

*n.* the top layer of Earth in which plants grow

*synonym* : earth, ground, mud

(1) **soils** retentive of moisture, (2) parched **soil**

**Soil** moisture is another significant component controlling soil respiration.

## far-reaching

*adj.* having a wide or significant impact or influence

*synonym* : extensive, widespread, broad

(1) achieve **far-reaching** reform, (2) **far-reaching** consequences

The **far-reaching** effects of the policy change are still being felt.

## fracture

*n.* the breaking or cracking of a rigid material or object such as bone

*synonym* : break, crack, rupture

(1) **fracture** test, (2) risk of bone **fractures**

X-ray inspection revealed many **fractures**.

## landscape

*n.* an expanse of scenery that can be seen in a single view; a large area of land, especially in the country and relating to its appearance

*synonym* : geography, terrain, topography

(1) a peaceful **landscape**, (2) **landscape** painting

Recent electoral shocks have shaken the political **landscape** in Europe.

## flood

*n.* a large amount of water flowing beyond its normal limits; an overwhelming number or amount

*synonym* : deluge, downpour, overflow

(1) **flood** advisory, (2) a **flood** of questions

These heavy rains caused flash **floods** on several islands.

## erosion

*n.* the wearing away of rock, soil, or land by natural processes such as wind or water

*synonym* : corrosion, weathering, decay

(1) **erosion** control, (2) wind **erosion**

The **erosion** of the coastline has accelerated due to rising sea levels.

## stable

*adj.* firm and steady; not easily moved, disturbed, or changed

*synonym* : sturdy, unmoving, durable

(1) in **stable** condition, (2) have a **stable** job

Relations between the two countries have been relatively **stable** due to the summit meeting.

## tilt

*v.* to incline or bend from a vertical position; (noun) the act of inclining or the state of being inclined or leaning to one side

*synonym* : incline, slant, lean

(1) on the **tilt**, (2) **tilt** a chair

She **tilted** her head to the side, indicating she was listening.

## 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.

## massive

*adj.* enormous amount; very heavy and solid

*synonym* : enormous, giant, immense

(1) **massive** amounts, (2) **massive** stars

The recent economic downturn has resulted in **massive** layoffs.

## landslide

*n.* a large, sudden movement of a mass of rock, earth, or other material down a slope

*synonym* : avalanche, mudslide, rockfall

(1) **landslide** victory, (2) prevent a **landslide**

The massive **landslide** buried the small village under a thick layer of rock and dirt.

## threaten

*v.* to utter intentions of injury or punishment against someone

*synonym* : endanger, terrorize, intimidate

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

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

## 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.

## endanger

*v.* to put someone or something in a risky situation

*synonym* : threaten, imperil, jeopardize

(1) **endanger** my health, (2) **endanger** a close relationship

Their actions **endangered** the lives of innocent people.

## indigenous

*adj.* someone or something that is native to or occurring naturally in a particular place

*synonym*: domestic, endemic, primitive

(1) **indigenous** crop, (2) **indigenous** peoples

The **indigenous** plants need to be pollinated by local insects.

## immemorial

*adj.* extending back beyond memory or record; very old

*synonym*: ancient, age-old, time-honored

(1) **immemorial** relationship, (2) from **immemorial** times

The ancient ruins had been there since **immemorial**, and their origin was mysterious.

## decision

*n.* the act or process of making up someone's mind about something; a choice or judgment reached after considering options

*synonym*: choice, determination, judgment

(1) **decision** authority, (2) a selfish **decision**

She was struggling to make a **decision** between two job offers.

## 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.

## extend

*v.* to broaden in scope, range, or area

*synonym*: prolong, lengthen, advance

(1) **extend** the warranty, (2) **extend** a line

Her visit will **extend** from Monday to Friday.



## estimate

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

*synonym*: calculate, gauge, evaluate

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

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

## trillion

n. the number 1,000,000,000,000; a million million

(1) **trillion** cubic feet, (2) many **trillions** of dollars

One light year is nearly 6 **trillion** miles.

## carbon

n. a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals

(1) **carbon** dioxide, (2) **carbon** emission

Trees absorb **carbon** dioxide and give off oxygen.

## atmosphere

n. the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work

*synonym*: air, ambiance, circumstances

(1) carbon dioxide in the **atmosphere**, (2) a convivial **atmosphere**

The spaceship began to burn up as it approached the Earth's **atmosphere**.

## release

v. to set free or allow to escape from confinement

*synonym*: free, let go, discharge

(1) **release** a prisoner, (2) **release** CO<sub>2</sub> into the air

The animal rights group worked to **release** the dolphins back into the wild.

## fossil

n. any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock

*synonym*: relic, remnant, antediluvian

(1) burning of **fossil** fuels, (2) a **fossil** leaf

It was the **fossil** of a dinosaur tooth.

**fuel** *n.* a substance that is typically burned to generate heat or energy  
*synonym*: energy, power, gas  
(1) biomass **fuel**, (2) smokeless **fuel**  
The **fuel** scarcity most severely impacted the manufacturing sector

**reservoir** *n.* a natural or artificial lake used to store water for community use; a large or extra supply of something  
*synonym*: pool, supply, repertoire  
(1) a **reservoir** of facts, (2) water **reservoir**  
The machine pumps up crude oil from a deep underground **reservoir**.

**organic** *adj.* of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals  
*synonym*: biological  
(1) **organic** soils, (2) eat **organic** food  
The kidney is an **organic** component of the body.

**intact** *adj.* undamaged and complete  
*synonym*: flawless, unchanged, entire  
(1) **intact** brain, (2) **intact** forestland  
Despite the scandals, his reputation remained **intact**.

**sediment** *n.* the substance that forms a solid layer at the bottom of the liquid  
*synonym*: deposition, residue  
(1) **sediment** runoff, (2) gravel **sediment**  
Heavy rain often washes away **sediments** of the river.

**efficiently** *adv.* in a way that produces maximum output with minimum effort or expense  
*synonym*: expeditiously, skillfully, ably

(1) **efficiently** combined, (2) develop software more **efficiently**

We can resolve support requests quickly and **efficiently** by utilization of AI.

## oxide

*n.* a chemical compound that contains at least one oxygen atom and one other element

(1) silver **oxide**, (2) combined **oxide**

The blood's red coloring comes from iron **oxide**.

## methane

*n.* a chemical compound with the chemical formula CH<sub>4</sub> with no smell or color, often used as a fuel

(1) atmospheric **methane**, (2) reduce **methane** emissions

The ignition of **methane** gas in the plant killed five employees.

## loop

*n.* a shape like a curve or a circle made by something long and thin, such as a piece of string, that bends round and crosses itself

*synonym*: circle, curl, spiral

(1) exit from a **loop**, (2) positive feedback **loop**

Many people in this city use the **loop** railway for transportation.

## greenhouse

*n.* a building with walls and roof made chiefly of transparent material, such as glass, for growing plants in

*synonym*: conservatory

(1) exotic plants in a **greenhouse**, (2) emissions of **greenhouse** gases

The **greenhouse** effect is a phenomenon that happens naturally.

## snapshot

*n.* an informal photograph, especially one taken quickly

*synonym*: photo, picture, print

(1) take a **snapshot**, (2) developed **snapshot**

There were framed **snapshots** of family and friends in her

room.

## 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.

## tread

*v.* to step or walk on something

*synonym*: step, walk, pace

(1) **tread** water, (2) **tread** a similar path  
He **treads** carefully on the slippery ice.

## terrain

*n.* the physical features of a piece of land, including hills, valleys, rivers, and forests

*synonym*: land, geography, topography

(1) **terrain** map, (2) permafrost **terrain**  
The mountainous **terrain** was rough and rocky.

## diversity

*n.* the quality or fact of many different types of things or people being included in something; a range of different things or people

*synonym*: variety, multiplicity, variousness

(1) the **diversity** policy of the university, (2) lingual **diversity**  
He was impressed by the range and **diversity** of the collection.

## Session 2: Spelling

- |                               |  |
|-------------------------------|--|
| 1. mi__r strike               | <i>n.</i> a person who works in a mine (= excavation in the Earth from which ores and minerals are extracted), especially one who extracts coal, minerals, or precious metals from the Earth |
| 2. effects of cl_____e change | <i>n.</i> the weather in a particular location averaged over some long period  |
| 3. reduce me_____e emissions  | <i>n.</i> a chemical compound with the chemical formula CH <sub>4</sub> with no smell or color, often used as a fuel   |
| 4. tr_____r inflation         | <i>v.</i> to make something happen suddenly; to cause something such as a device, machine, etc. to function  |
| 5. the atmospheric tem_____re | <i>n.</i> the degree of hotness or coldness of a thing or place  |
| 6. fr_____cy band             | <i>n.</i> an ordered array of colors into which a light beam can be split  |
| 7. positive feedback l__p     | <i>n.</i> a shape like a curve or a circle made by something long and thin, such as a piece of string, that bends round and crosses itself   |
| 8. en___e in glass            | <i>v.</i> to enclose or cover something in a protective or decorative layer  |
| 9. an_____t stories           | <i>adj.</i> relating to the long ago, particularly the historical period preceding the fall of the Western Roman Empire; very old  |

ANSWERS: 1. miner, 2. climate, 3. methane, 4. trigger, 5. temperature, 6. frequency, 7. loop, 8. encase, 9. ancient

- |                                      |  |
|--------------------------------------|--|
| 10. combined ox__e                   | <i>n.</i> a chemical compound that contains at least one oxygen atom and one other element                                       |
| 11. save the pl__t                   | <i>n.</i> any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star |
| 12. imm_____al relationship          | <i>adj.</i> extending back beyond memory or record; very old   |
| 13. live in a sub_____ng climate     | <i>adj.</i> below the freezing point (32 F or 0 C)   |
| 14. gravel se_____nt                 | <i>n.</i> the substance that forms a solid layer at the bottom of the liquid   |
| 15. ex_____t by human activity       | <i>adj.</i> no longer in existence   |
| 16. pre_____ic times                 | <i>adj.</i> belonging to or existing in times before recorded history; no longer fashionable                                     |
| 17. op_____e 24 hours a day          | <i>v.</i> to work in a particular way; to supervise something  |
| 18. developed sn_____ot              | <i>n.</i> an informal photograph, especially one taken quickly   |
| 19. ma_____e stars                   | <i>adj.</i> enormous amount; very heavy and solid  |
| 20. wo___y lambs                     | <i>adj.</i> covered with thick, soft, and often curly hair or fibers; lacking clarity or precision                               |
| 21. in st___e condition              | <i>adj.</i> firm and steady; not easily moved, disturbed, or changed   |
| 22. develop software more eff_____ly | <i>adv.</i> in a way that produces maximum output with minimum effort or expense   |
| 23. inc_____te information           | <i>adj.</i> not having all the necessary or appropriate parts; not yet finished  |

ANSWERS: 10. oxide, 11. planet, 12. immemorial, 13. subfreezing, 14. sediment, 15. extinct, 16. prehistoric, 17. operate, 18. snapshot, 19. massive, 20. woolly, 21. stable, 22. efficiently, 23. incomplete

24. id\_\_\_\_fy gene sequences *v.* to recognize someone or something and say or prove who or what they are
25. silver ox\_\_e *n.* a chemical compound that contains at least one oxygen atom and one other element
26. the mouth of the c\_\_e *n.* a large hole in the side of a hill, cliff, mountain, or under the ground
27. the Siberian tu\_\_\_\_a *n.* a vast, treeless, and typically frozen plain in the Arctic regions, where the subsoil is permanently frozen
28. a selfish de\_\_\_\_on *n.* the act or process of making up someone's mind about something; a choice or judgment reached after considering options
29. take a sn\_\_\_\_ot *n.* an informal photograph, especially one taken quickly
30. extreme tem\_\_\_\_res *n.* the degree of hotness or coldness of a thing or place
31. risk of bone fr\_\_\_\_res *n.* the breaking or cracking of a rigid material or object such as bone
32. wi\_\_\_\_re spread *n.* a large, uncontrolled fire that spreads quickly through a natural area such as a forest, grassland, or mountain slope
33. smokeless f\_\_l *n.* a substance that is typically burned to generate heat or energy
34. eff\_\_\_\_ly combined *adv.* in a way that produces maximum output with minimum effort or expense
35. lo\_\_\_e a tumor *v.* to specify or determine the exact position of someone or something

ANSWERS: 24. identify, 25. oxide, 26. cave, 27. tundra, 28. decision, 29. snapshot, 30. temperature, 31. fracture, 32. wildfire, 33. fuel, 34. efficiently, 35. locate

36. a tr\_\_\_\_\_on of a culture      *n.* a belief, custom, or way of doing something that has been passed down from generation to generation within a group or society
37. agile sq\_\_\_\_\_el      *n.* a small to medium-sized rodent with a bushy tail, found in almost every part of the world
38. fr\_\_\_\_\_re test      *n.* the breaking or cracking of a rigid material or object such as bone
39. sk\_\_\_\_\_on hand      *n.* the structure of bones in a human or animal body, or a framework of bones or other material that supports a plant
40. have a st\_\_\_e job      *adj.* firm and steady; not easily moved, disturbed, or changed
41. establish his ki\_\_\_\_\_m      *n.* the country ruled by a king or queen
42. un\_\_\_\_\_r the truth      *v.* to remove the cover from something; to discover something previously unseen or hidden
43. r\_\_y entirely on him      *v.* to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.
44. the fr\_\_e of the policy      *n.* a strong border or structure of the wood, metal, etc. that surrounds something such as a picture, door, or window
45. in\_\_\_t brain      *adj.* undamaged and complete
46. tr\_\_\_\_\_on cubic feet      *n.* the number 1,000,000,000,000; a million million

ANSWERS: 36. tradition, 37. squirrel, 38. fracture, 39. skeleton, 40. stable, 41. kingdom, 42. uncover, 43. rely, 44. frame, 45. intact, 46. trillion



47. er\_\_\_\_n control *n.* the wearing away of rock, soil, or land by natural processes such as wind or water
48. met\_\_\_\_\_sm enzyme *n.* the set of chemical reactions in cells or organisms that are necessary for life-sustaining
49. wo\_\_\_y hair *adj.* covered with thick, soft, and often curly hair or fibers; lacking clarity or precision
50. es\_\_\_\_\_te this chicken to weigh three pounds *v.* to guess or calculate the cost, size, value, etc. of something
51. de\_\_\_\_\_se into simpler molecules *v.* to break down or cause to break down over time into simpler substances or elements
52. in\_\_\_t forestland *adj.* undamaged and complete
53. woolly ma\_\_\_\_\_h *adj.* exceedingly large or extensive; (noun) any of numerous extinct elephants widely distributed in the Pleistocene
54. sub\_\_\_\_\_ng temperature *adj.* below the freezing point (32 F or 0 C)
55. domesticated re\_\_\_\_\_er *n.* a large deer with branched antlers found in northern regions, often domesticated and used for transportation or as a source of food
56. pre-Christian an\_\_\_\_\_t *adj.* relating to the long ago, particularly the historical period preceding the fall of the Western Roman Empire; very old
57. ne\_\_\_e deeper against him *v.* to settle comfortably or cozily into a place
58. ext\_\_\_\_\_ary ability *adj.* exceptional, unexpected, very unusual; surpassing the ordinary or usual

ANSWERS: 47. erosion, 48. metabolism, 49. woolly, 50. estimate, 51. decompose, 52. intact, 53. mammoth, 54. subfreezing, 55. reindeer, 56. ancient, 57. nestle, 58. extraordinary

59. tr\_\_d a similar path *v.* to step or walk on something
60. a picture fr\_\_e *n.* a strong border or structure of the wood, metal, etc. that surrounds something such as a picture, door, or window
61. find unm\_\_\_\_\_ble evidence *adj.* clearly recognizable; impossible to mistake or misunderstand
62. ca\_\_\_n dioxide *n.* a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals
63. na\_\_\_n-state *n.* a large organized community of people living in a particular country or region and having a particular culture
64. a reg\_\_\_\_\_te sinner *v.* to improve or renew an area, institution, system, etc., especially by making it more active or successful
65. a peaceful la\_\_\_\_\_pe *n.* an expanse of scenery that can be seen in a single view; a large area of land, especially in the country and relating to its appearance
66. ready to co\_\_\_\_\_se *v.* to fall down or give way suddenly, often after breaking apart
67. tr\_\_\_\_\_r a biochemical response *v.* to make something happen suddenly; to cause something such as a device, machine, etc. to function
68. ar\_\_\_c ice *adj.* of or relating to the region around the North Pole or the Arctic Ocean; very cold

ANSWERS: 59. tread, 60. frame, 61. unmistakable, 62. carbon, 63. nation, 64. regenerate, 65. landscape, 66. collapse, 67. trigger, 68. arctic

69. at inc\_\_\_\_\_le speed *adj.* unbelievable; enormous
70. te\_\_\_\_\_n map *n.* the physical features of a piece of land, including hills, valleys, rivers, and forests
71. 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
72. far\_\_\_\_\_ing consequences *adj.* having a wide or significant impact or influence
73. ex\_\_\_\_\_e sports *adj.* very great in amount or degree
74. burning of fo\_\_\_\_l fuels *n.* any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock
75. parched s\_\_l *n.* the top layer of Earth in which plants grow
76. ne\_\_\_\_e in a cozy spot *v.* to settle comfortably or cozily into a place
77. hemoglobin met\_\_\_\_\_sm *n.* the set of chemical reactions in cells or organisms that are necessary for life-sustaining
78. the yi\_\_d on the bond *n.* the total output of crops, profits, etc. that are produced; (verb) to produce or supply helpful something, such as a profit, an amount of food, or information
79. customer with inc\_\_\_\_\_te credit histories *adj.* not having all the necessary or appropriate parts; not yet finished
80. water re\_\_\_\_\_ir *n.* a natural or artificial lake used to store water for community use; a large or extra supply of something

ANSWERS: 69. incredible, 70. terrain, 71. microorganism, 72. far-reaching, 73. extreme, 74. fossil, 75. soil, 76. nestle, 77. metabolism, 78. yield, 79. incomplete, 80. reservoir

- |  |             |   |
|--|-------------|---|
| 81. the steel sk_____on of a building      | <i>n.</i>   | the structure of bones in a human or animal body, or a framework of bones or other material that supports a plant                   |
| 82. ex____d the warranty                   | <i>v.</i>   | to broaden in scope, range, or area   |
| 83. p_p company                            | <i>n.</i>   | a young dog, seal, or other animals   |
| 84. biomass f__l                           | <i>n.</i>   | a substance that is typically burned to generate heat or energy   |
| 85. the di_____ty policy of the university | <i>n.</i>   | the quality or fact of many different types of things or people being included in something; a range of different things or people  |
| 86. th_____en national security            | <i>v.</i>   | to utter intentions of injury or punishment against someone   |
| 87. per_____st area                        | <i>n.</i>   | a layer of soil that is permanently below freezing, usually in polar regions  |
| 88. red-nosed re_____er                    | <i>n.</i>   | a large deer with branched antlers found in northern regions, often domesticated and used for transportation or as a source of food |
| 89. rec_____ct the original text           | <i>v.</i>   | to build or form something again that has been damaged or destroyed   |
| 90. sk_____al system                       | <i>adj.</i> | of, relating to, or forming a skeleton (= frame of bones); very thin or emaciated   |
| 91. a re_____ir of facts                   | <i>n.</i>   | a natural or artificial lake used to store water for community use; a large or extra supply of something                            |
| 92. s__ls retentive of moisture            | <i>n.</i>   | the top layer of Earth in which plants grow   |

ANSWERS: 81. skeleton, 82. extend, 83. pup, 84. fuel, 85. diversity, 86. threaten, 87. permafrost, 88. reindeer, 89. reconstruct, 90. skeletal, 91. reservoir, 92. soil

93. permafrost te\_\_\_\_n      *n.* the physical features of a piece of land, including hills, valleys, rivers, and forests
94. cattle he\_\_\_\_r      *n.* a person who takes care of and manages a herd of livestock, such as cows, sheep, or goats
95. cr\_\_\_\_l analyses      *n.* a solid material with many even sides that is formed naturally when the substance becomes solid and has a highly regular atomic structure; clear and colorless glass made of almost pure silica
96. a ma\_\_\_\_h ship      *adj.* exceedingly large or extensive; (noun) any of numerous extinct elephants widely distributed in the Pleistocene
97. tr\_\_d water      *v.* to step or walk on something
98. a c\_\_f elephant      *n.* a young cow, bull, or other domestic bovine animals
99. li\_\_\_\_ng air strike      *n.* a flash, or several flashes, of light that accompanies an electric discharge in the atmosphere, or something resembling such a flash
100. or\_\_\_\_c soils      *adj.* of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals
101. ex\_\_\_\_e weather events      *adj.* very great in amount or degree
102. carbon dioxide in the atm\_\_\_\_re      *n.* the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work

ANSWERS: 93. terrain, 94. herder, 95. crystal, 96. mammoth, 97. tread, 98. calf, 99. lightning, 100. organic, 101. extreme, 102. atmosphere

103. fl\_\_d advisory *n.* a large amount of water flowing beyond its normal limits; an overwhelming number or amount
104. de\_\_\_\_\_on authority *n.* the act or process of making up someone's mind about something; a choice or judgment reached after considering options
105. a subordinate ki\_\_\_\_\_m *n.* the country ruled by a king or queen
106. ind\_\_\_\_\_us crop *adj.* someone or something that is native to or occurring naturally in a particular place
107. manually op\_\_\_\_\_e a machine *v.* to work in a particular way; to supervise something
108. en\_\_\_\_\_er a crisis *v.* to face something, particularly something unpleasant or difficult, while attempting to do something else; to meet, especially unexpectedly
109. long-ex\_\_\_\_\_t volcano *adj.* no longer in existence
110. a fl\_\_d of questions *n.* a large amount of water flowing beyond its normal limits; an overwhelming number or amount
111. liquid cr\_\_\_\_\_l *n.* a solid material with many even sides that is formed naturally when the substance becomes solid and has a highly regular atomic structure; clear and colorless glass made of almost pure silica
112. co\_\_\_\_\_al combination of funds *adj.* belonging to or used by a group rather than individuals; for common use

ANSWERS: 103. flood, 104. decision, 105. kingdom, 106. indigenous, 107. operate, 108. encounter, 109. extinct, 110. flood, 111. crystal, 112. communal

113. a desirable ou\_\_\_\_e                    *n.* the result or effect of an action, event, etc.
114. a convivial atm\_\_\_\_\_re            *n.* the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work
115. gray sq\_\_\_\_\_el                    *n.* a small to medium-sized rodent with a bushy tail, found in almost every part of the world
116. high ar\_\_\_\_c                         *adj.* of or relating to the region around the North Pole or the Arctic Ocean; very cold
117. a fe\_\_t for the eyes                    *n.* a large meal, typically one served on a special occasion
118. a facial ti\_\_\_\_e                        *n.* an ensemble of similar cells of the animal or plant that together carry out a specific function
119. a seafaring na\_\_\_\_n                    *n.* a large organized community of people living in a particular country or region and having a particular culture
120. t\_\_t a chair                             *v.* to incline or bend from a vertical position; (noun) the act of inclining or the state of being inclined or leaning to one side
121. domiciliary c\_\_es                      *n.* a large hole in the side of a hill, cliff, mountain, or under the ground
122. id\_\_\_\_\_fy handwriting            *v.* to recognize someone or something and say or prove who or what they are
123. ca\_\_\_\_n emission                    *n.* a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals

ANSWERS: 113. outcome, 114. atmosphere, 115. squirrel, 116. arctic, 117. feast, 118. tissue, 119. nation, 120. tilt, 121. cave, 122. identify, 123. carbon

124. exotic plants in a gre\_\_\_\_\_se      *n.* a building with walls and roof made chiefly of transparent material, such as glass, for growing plants in
125. lo\_\_\_e a missing pet      *v.* to specify or determine the exact position of someone or something
126. en\_\_\_e his feet      *v.* to enclose or cover something in a protective or decorative layer
127. arson-caused wi\_\_\_\_\_re      *n.* a large, uncontrolled fire that spreads quickly through a natural area such as a forest, grassland, or mountain slope
128. atmospheric me\_\_\_\_\_e      *n.* a chemical compound with the chemical formula CH<sub>4</sub> with no smell or color, often used as a fuel
129. playful p\_p      *n.* a young dog, seal, or other animals
130. obsolete fos\_\_\_\_\_ed ways      *adj.* transformed into a fossil (= something preserved in rock for a very long period) or preserved in the form of a fossil; antiquated or inflexible
131. the DNA se\_\_\_\_\_ce      *n.* a series of related events, actions, numbers, etc., which have a particular order
132. wind er\_\_\_\_\_n      *n.* the wearing away of rock, soil, or land by natural processes such as wind or water
133. ext\_\_\_\_\_te the results      *v.* to guess or think about what might happen or estimate something using the facts that you have now
134. seminomadic he\_\_\_rs      *n.* a person who takes care of and manages a herd of livestock, such as cows, sheep, or goats

ANSWERS: 124. greenhouse, 125. locate, 126. encase, 127. wildfire, 128. methane, 129. pup, 130. fossilized, 131. sequence, 132. erosion, 133. extrapolate, 134. herder





146. tu\_\_\_a biome *n.* a vast, treeless, and typically frozen plain in the Arctic regions, where the subsoil is permanently frozen
147. en\_\_\_\_\_er my health *v.* to put someone or something in a risky situation
148. loss of muscle ti\_\_\_e *n.* an ensemble of similar cells of the animal or plant that together carry out a specific function
149. t\_\_w relations between countries *v.* to become less rigid or hostile; to melt, soften, or become more friendly
150. ext\_\_\_\_\_ary weather *adj.* exceptional, unexpected, very unusual; surpassing the ordinary or usual
151. sa\_\_\_n fishery *n.* a type of fish that is commonly found in the North Atlantic and North Pacific oceans
152. mo\_\_\_\_\_re level *n.* small amounts of liquid, especially water, that are present in or absorbed by a substance
153. streaks of li\_\_\_\_\_ng *n.* a flash, or several flashes, of light that accompanies an electric discharge in the atmosphere, or something resembling such a flash
154. corn yi\_\_d *n.* the total output of crops, profits, etc. that are produced; (verb) to produce or supply helpful something, such as a profit, an amount of food, or information
155. a cold cl\_\_\_\_\_e *n.* the weather in a particular location averaged over some long period
156. re\_\_\_\_\_e CO2 into the air *v.* to set free or allow to escape from confinement

ANSWERS: 146. tundra, 147. endanger, 148. tissue, 149. thaw, 150. extraordinary, 151. salmon, 152. moisture, 153. lightning, 154. yield, 155. climate, 156. release

157. emissions of gre\_\_\_\_\_se gases      *n.* a building with walls and roof made chiefly of transparent material, such as glass, for growing plants in
158. re\_\_\_\_\_e a prisoner      *v.* to set free or allow to escape from confinement
159. the stock market co\_\_\_\_\_sed      *v.* to fall down or give way suddenly, often after breaking apart
160. t\_\_w out a glacier      *v.* to become less rigid or hostile; to melt, soften, or become more friendly
161. a fos\_\_\_\_\_ed grove      *adj.* transformed into a fossil (= something preserved in rock for a very long period) or preserved in the form of a fossil; antiquated or inflexible
162. en\_\_\_\_\_er a close relationship      *v.* to put someone or something in a risky situation
163. pre\_\_\_\_\_ic settlements      *adj.* belonging to or existing in times before recorded history; no longer fashionable
164. la\_\_\_\_\_pe painting      *n.* an expanse of scenery that can be seen in a single view; a large area of land, especially in the country and relating to its appearance
165. b\_\_y in the earth      *v.* to place a dead body in the ground, grave, or tomb
166. sa\_\_\_\_n migration      *n.* a type of fish that is commonly found in the North Atlantic and North Pacific oceans
167. ma\_\_\_\_\_e amounts      *adj.* enormous amount; very heavy and solid
168. cell and molecular bi\_\_\_\_\_y      *n.* the scientific study of life and the natural processes of living things

ANSWERS: 157. greenhouse, 158. release, 159. collapse, 160. thaw, 161. fossilized, 162. endanger, 163. prehistoric, 164. landscape, 165. bury, 166. salmon, 167. massive, 168. biology

169. pr\_\_\_\_ve my strength      *v.* to keep or maintain a particular quality, feature, etc., especially to prevent it from decaying, being damaged, or being destroyed
170. many tr\_\_\_\_ons of dollars      *n.* the number 1,000,000,000,000; a million million
171. en\_\_\_\_\_er a storm      *v.* to face something, particularly something unpleasant or difficult, while attempting to do something else; to meet, especially unexpectedly
172. lot of mo\_\_\_\_re      *n.* small amounts of liquid, especially water, that are present in or absorbed by a substance
173. exit from a l\_\_p      *n.* a shape like a curve or a circle made by something long and thin, such as a piece of string, that bends round and crosses itself
174. high fr\_\_\_\_\_cy      *n.* an ordered array of colors into which a light beam can be split
175. de\_\_\_\_\_se matter      *v.* to break down or cause to break down over time into simpler substances or elements
176. a nightly fe\_\_t      *n.* a large meal, typically one served on a special occasion
177. r\_\_y on convenience stores      *v.* to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.
178. a fo\_\_\_l leaf      *n.* any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock

ANSWERS: 169. preserve, 170. trillion, 171. encounter, 172. moisture, 173. loop, 174. frequency, 175. decompose, 176. feast, 177. rely, 178. fossil

179. sk\_\_\_\_al muscles *adj.* of, relating to, or forming a skeleton (= frame of bones); very thin or emaciated
180. bear d\_n *n.* a wild animal's lair or hiding places, such as a fox or bear
181. reg\_\_\_\_\_te bone tissue *v.* to improve or renew an area, institution, system, etc., especially by making it more active or successful
182. thawing per\_\_\_\_\_st *n.* a layer of soil that is permanently below freezing, usually in polar regions
183. la\_\_\_\_\_de victory *n.* a large, sudden movement of a mass of rock, earth, or other material down a slope
184. 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
185. 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
186. improved student ou\_\_\_\_\_es *n.* the result or effect of an action, event, etc.
187. es\_\_\_\_\_te a fair value *v.* to guess or calculate the cost, size, value, etc. of something
188. IT inf\_\_\_\_\_ure *n.* the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies
189. achieve far\_\_\_\_\_ing reform *adj.* having a wide or significant impact or influence

ANSWERS: 179. skeletal, 180. den, 181. regenerate, 182. permafrost, 183. landslide, 184. planet, 185. microorganism, 186. outcome, 187. estimate, 188. infrastructure, 189. far-reaching

190. lingual di\_\_\_\_\_ty *n.* the quality or fact of many different types of things or people being included in something; a range of different things or people
191. eat or\_\_\_\_\_c food *adj.* of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals
192. ext\_\_\_\_\_te animal dose *v.* to guess or think about what might happen or estimate something using the facts that you have now
193. bu\_\_\_w into a mystery *v.* to excavate a hole or make a tunnel in the ground by digging, typically for use as a dwelling of an animal
194. un\_\_\_\_\_r a potential problem *v.* to remove the cover from something; to discover something previously unseen or hidden
195. se\_\_\_\_\_nt runoff *n.* the substance that forms a solid layer at the bottom of the liquid
196. rem\_\_\_\_\_le achievement *adj.* worthy of attention because unusual or special
197. a scientific di\_\_\_\_\_ry *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
198. gambling d\_n *n.* a wild animal's lair or hiding places, such as a fox or bear
199. ex\_\_\_d a line *v.* to broaden in scope, range, or area
200. evolutionary bi\_\_\_\_\_y *n.* the scientific study of life and the natural processes of living things

ANSWERS: 190. diversity, 191. organic, 192. extrapolate, 193. burrow, 194. uncover, 195. sediment, 196. remarkable, 197. discovery, 198. den, 199. extend, 200. biology

201. from imm\_\_\_\_\_al times *adj.* extending back beyond memory or record; very old
202. inc\_\_\_\_\_le amount *adj.* unbelievable; enormous
203. cerebral hem\_\_\_\_\_re *n.* half of the terrestrial globe; half of a sphere
204. bu\_\_\_w through the forest *v.* to excavate a hole or make a tunnel in the ground by digging, typically for use as a dwelling of an animal
205. ty\_\_\_\_\_l leader *adj.* having the usual characteristics or traits of a specific group of things
206. against tr\_\_\_\_\_on *n.* a belief, custom, or way of doing something that has been passed down from generation to generation within a group or society
207. fairly ty\_\_\_\_\_l symptoms *adj.* having the usual characteristics or traits of a specific group of things
208. mi\_\_\_r industry *n.* a person who works in a mine (= excavation in the Earth from which ores and minerals are extracted), especially one who extracts coal, minerals, or precious metals from the Earth
209. the se\_\_\_\_\_ce of the seasons *n.* a series of related events, actions, numbers, etc., which have a particular order
210. the great di\_\_\_\_\_ry of the century *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
211. b\_\_\_y emotion *v.* to place a dead body in the ground, grave, or tomb

ANSWERS: 201. immemorial, 202. incredible, 203. hemisphere, 204. burrow, 205. typical, 206. tradition, 207. typical, 208. miner, 209. sequence, 210. discovery, 211. bury

212. inf\_\_\_\_\_ure cost

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

ANSWERS: 212. infrastructure



## Session 3: Fill in the Blanks

1. He continued his investigation and soon \_\_\_\_\_ another crime.  
*v.* to remove the cover from something; to discover something previously unseen or hidden
  
2. The machine pumps up crude oil from a deep underground \_\_\_\_\_.  
*n.* a natural or artificial lake used to store water for community use; a large or extra supply of something
  
3. 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
  
4. The company's stock gives a high \_\_\_\_\_.  
*n.* the total output of crops, profits, etc. that are produced; (verb) to produce or supply helpful something, such as a profit, an amount of food, or information
  
5. The researcher criticized the study due to \_\_\_\_\_ data.  
*adj.* not having all the necessary or appropriate parts; not yet finished
  
6. The older man was skinny and \_\_\_\_\_ and not in good health.  
*adj.* of, relating to, or forming a skeleton (= frame of bones); very thin or emaciated
  
7. Many species have become \_\_\_\_\_ due to habitat destruction and other human activities.  
*adj.* no longer in existence
  
8. In junior high school, we had to dissect a frog in \_\_\_\_\_ class.  
*n.* the scientific study of life and the natural processes of living things

ANSWERS: 1. uncovered, 2. reservoir, 3. infrastructure, 4. yield, 5. incomplete, 6. skeletal, 7. extinct, 8. biology

9. This weather pattern is unique to the southern \_\_\_\_\_.
- n.* half of the terrestrial globe; half of a sphere
10. Heavy rain often washes away \_\_\_\_\_ of the river.
- n.* the substance that forms a solid layer at the bottom of the liquid
11. I will introduce you to how to \_\_\_\_\_ the leading causes of the malfunction.
- v.* to recognize someone or something and say or prove who or what they are
12. Cities around the world set records for highest \_\_\_\_\_ this summer.
- n.* the degree of hotness or coldness of a thing or place
13. The researcher separated the nervous \_\_\_\_\_ for microscopic examinations.
- n.* an ensemble of similar cells of the animal or plant that together carry out a specific function
14. The robot can accurately \_\_\_\_\_ construction material.
- v.* to specify or determine the exact position of someone or something
15. The human eye is \_\_\_\_\_ in recognizing objects.
- n.* a flash, or several flashes, of light that accompanies an electric discharge in the atmosphere, or something resembling such a flash
16. The royal \_\_\_\_\_ celebrated the harvest, and the community enjoyed it.
- n.* a large meal, typically one served on a special occasion
17. The little \_\_\_\_ was so cute, with big, floppy ears and a wagging tail.
- n.* a young dog, seal, or other animals

ANSWERS: 9. hemisphere, 10. sediments, 11. identify, 12. temperatures, 13. tissue, 14. locate, 15. lightning-fast, 16. feast, 17. pup

18. I'm prepared to \_\_\_\_\_ challenges throughout this adventure.
- v.* to face something, particularly something unpleasant or difficult, while attempting to do something else; to meet, especially unexpectedly
19. A vast \_\_\_\_\_ chandelier glittered brightly above us.
- n.* a solid material with many even sides that is formed naturally when the substance becomes solid and has a highly regular atomic structure; clear and colorless glass made of almost pure silica
20. After the earthquake, many of the buildings in the city were left in ruins and began to \_\_\_\_\_.
- v.* to break down or cause to break down over time into simpler substances or elements
21. His talent for singing is \_\_\_\_\_.
- adj.* clearly recognizable; impossible to mistake or misunderstand
22. The massive \_\_\_\_\_ buried the small village under a thick layer of rock and dirt.
- n.* a large, sudden movement of a mass of rock, earth, or other material down a slope
23. 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
24. The ignition of \_\_\_\_\_ gas in the plant killed five employees.
- n.* a chemical compound with the chemical formula CH<sub>4</sub> with no smell or color, often used as a fuel
25. By remaining neutral, this \_\_\_\_\_ continued to exist.
- n.* the country ruled by a king or queen

ANSWERS: 18. encounter, 19. crystal, 20. decompose, 21. unmistakable, 22. landslide, 23. woolly, 24. methane, 25. kingdom

26. The \_\_\_\_\_ destroyed hundreds of homes and forced thousands of people to evacuate.
- n.* a large, uncontrolled fire that spreads quickly through a natural area such as a forest, grassland, or mountain slope
27. He was impressed by the range and \_\_\_\_\_ of the collection.
- n.* the quality or fact of many different types of things or people being included in something; a range of different things or people
28. Trees absorb \_\_\_\_\_ dioxide and give off oxygen.
- n.* a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals
29. Grilled \_\_\_\_\_ is a popular dish at summer barbecues.
- n.* a type of fish that is commonly found in the North Atlantic and North Pacific oceans
30. The kidney is an \_\_\_\_\_ component of the body.
- adj.* of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals
31. Relations between the two countries have been relatively \_\_\_\_\_ due to the summit meeting.
- adj.* firm and steady; not easily moved, disturbed, or changed
32. Cold temperatures and long, dark winters characterize the \_\_\_\_\_ climate.
- adj.* of or relating to the region around the North Pole or the Arctic Ocean; very cold
33. The Arctic \_\_\_\_\_ is a vast and desolate landscape with few signs of life.
- n.* a vast, treeless, and typically frozen plain in the Arctic regions, where the subsoil is permanently frozen

ANSWERS: 26. wildfire, 27. diversity, 28. carbon, 29. salmon, 30. organic, 31. stable, 32. arctic, 33. tundra

34. The ancient ruins had been there since \_\_\_\_\_ and their origin was mysterious.

*adj.* extending back beyond memory or record; very old

35. 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

36. We do move forward with those tasks in \_\_\_\_\_ next week.

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

37. One light year is nearly 6 \_\_\_\_\_ miles.

*n.* the number 1,000,000,000,000; a million million

38. \_\_\_\_\_ elections were held in several European countries.

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

39. She was struggling to make a \_\_\_\_\_ between two job offers.

*n.* the act or process of making up someone's mind about something; a choice or judgment reached after considering options

40. My hair looks greasy because there is too much \_\_\_\_\_ in the air.

*n.* small amounts of liquid, especially water, that are present in or absorbed by a substance

41. They \_\_\_\_\_ the fragile vase in bubble wrap to protect it during shipping.

*v.* to enclose or cover something in a protective or decorative layer

42. The roof finally \_\_\_\_\_ after three days and three nights of heavy snowfall.

*v.* to fall down or give way suddenly, often after breaking apart

ANSWERS: 34. immemorial, 35. mammoth, 36. sequence, 37. trillion, 38. Communal, 39. decision, 40. moisture, 41. encased, 42. collapsed

43. The \_\_\_\_\_ effect is a phenomenon that happens naturally.
- n.* a building with walls and roof made chiefly of transparent material, such as glass, for growing plants in
44. There is plenty of space to \_\_\_\_\_ everyone.
- v.* to place a dead body in the ground, grave, or tomb
45. 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
46. The sun was beginning to \_\_\_\_\_ the frozen ground.
- v.* to become less rigid or hostile; to melt, soften, or become more friendly
47. The blood's red coloring comes from iron \_\_\_\_\_.
- n.* a chemical compound that contains at least one oxygen atom and one other element
48. The newborn \_\_\_\_\_ stood on wobbly legs, trying to find its mother's milk.
- n.* a young cow, bull, or other domestic bovine animals
49. \_\_\_\_\_ moisture is another significant component controlling soil respiration.
- n.* the top layer of Earth in which plants grow
50. Recent electoral shocks have shaken the political \_\_\_\_\_ in Europe.
- n.* an expanse of scenery that can be seen in a single view; a large area of land, especially in the country and relating to its appearance
51. Her research team made an important \_\_\_\_\_.
- n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known

ANSWERS: 43. greenhouse, 44. bury, 45. microorganism, 46. thaw, 47. oxide, 48. calf, 49. Soil, 50. landscape, 51. discovery

52. He narrated the \_\_\_\_\_ story of his adventure.

*adj.* exceptional, unexpected, very unusual; surpassing the ordinary or usual

53. The sheep \_\_\_\_\_ led his flock through the hills, keeping a watchful eye on them at all times.

*n.* a person who takes care of and manages a herd of livestock, such as cows, sheep, or goats

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

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

55. The cat \_\_\_\_\_ in my lap and fell asleep.

*v.* to settle comfortably or cozily into a place

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

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

57. Scientists often fail to date archeological or \_\_\_\_\_ findings.

*adj.* belonging to or existing in times before recorded history; no longer fashionable

58. 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

59. The fox had dug a \_\_\_\_ in the side of the hill, where it could rest and hide from predators.

*n.* a wild animal's lair or hiding places, such as a fox or bear

60. The spaceship began to burn up as it approached the Earth's \_\_\_\_\_.

*n.* the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work

ANSWERS: 52. extraordinary, 53. herder, 54. outcome, 55. nestled, 56. estimated, 57. prehistorical, 58. planet, 59. den, 60. atmosphere

61. 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

62. He \_\_\_\_\_ carefully on the slippery ice.

*v.* to step or walk on something

63. We can resolve support requests quickly and \_\_\_\_\_ by utilization of AI.

*adv.* in a way that produces maximum output with minimum effort or expense

64. This artwork is \_\_\_\_\_ of her work.

*adj.* having the usual characteristics or traits of a specific group of things

65. Better sleep leads to increased \_\_\_\_\_.

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

66. Her visit will \_\_\_\_\_ from Monday to Friday.

*v.* to broaden in scope, range, or area

67. X-ray inspection revealed many \_\_\_\_\_.

*n.* the breaking or cracking of a rigid material or object such as bone

68. The \_\_\_\_\_ of Japan is known for its unique culture and advanced technology.

*n.* a large organized community of people living in a particular country or region and having a particular culture

69. The animal rights group worked to \_\_\_\_\_ the dolphins back into the wild.

*v.* to set free or allow to escape from confinement

ANSWERS: 61. ancient, 62. treads, 63. efficiently, 64. typical, 65. metabolism, 66. extend, 67. fractures, 68. nation, 69. release



70. The oscillator hunts for the correct \_\_\_\_\_.
- n.* an ordered array of colors into which a light beam can be split
71. They've decided to \_\_\_\_\_ a ruined castle.
- v.* to build or form something again that has been damaged or destroyed
72. The mountainous \_\_\_\_\_ was rough and rocky.
- n.* the physical features of a piece of land, including hills, valleys, rivers, and forests
73. This predictive model mechanically \_\_\_\_\_ past trends into the future.
- v.* to guess or think about what might happen or estimate something using the facts that you have now
74. 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
75. Bats reside in sheltered \_\_\_\_\_.
- n.* a large hole in the side of a hill, cliff, mountain, or under the ground
76. These heavy rains caused flash \_\_\_\_\_ on several islands.
- n.* a large amount of water flowing beyond its normal limits; an overwhelming number or amount
77. The \_\_\_\_\_ plants need to be pollinated by local insects.
- adj.* someone or something that is native to or occurring naturally in a particular place

ANSWERS: 70. frequency, 71. reconstruct, 72. terrain, 73. extrapolates, 74. regenerate, 75. caves, 76. floods, 77. indigenous

78. It is a \_\_\_\_\_ in many families to have a big Thanksgiving dinner with all their relatives.
- n.* a belief, custom, or way of doing something that has been passed down from generation to generation within a group or society
79. The coal \_\_\_\_\_ worked tirelessly to extract valuable minerals from deep underground.
- n.* a person who works in a mine (= excavation in the Earth from which ores and minerals are extracted), especially one who extracts coal, minerals, or precious metals from the Earth
80. The \_\_\_\_\_ of the coastline has accelerated due to rising sea levels.
- n.* the wearing away of rock, soil, or land by natural processes such as wind or water
81. \_\_\_\_\_ is crucial to soil stability in arctic areas.
- n.* a layer of soil that is permanently below freezing, usually in polar regions
82. This machine is too difficult to \_\_\_\_\_ for me.
- v.* to work in a particular way; to supervise something
83. There were framed \_\_\_\_\_ of family and friends in her room.
- n.* an informal photograph, especially one taken quickly
84. You can't \_\_\_\_\_ through solid metal.
- v.* to excavate a hole or make a tunnel in the ground by digging, typically for use as a dwelling of an animal
85. She \_\_\_\_\_ her head to the side, indicating she was listening.
- v.* to incline or bend from a vertical position; (noun) the act of inclining or the state of being inclined or leaning to one side

ANSWERS: 78. tradition, 79. miner, 80. erosion, 81. Permafrost, 82. operate, 83. snapshots, 84. burrow, 85. tilted

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

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

87. Scientists studied the ancient \_\_\_\_\_ to learn more about the creature's anatomy.

- n.* the structure of bones in a human or animal body, or a framework of bones or other material that supports a plant

88. The Sami people have been herding \_\_\_\_\_ in the Arctic for centuries, using them for food, transportation, and clothing.

- n.* a large deer with branched antlers found in northern regions, often domesticated and used for transportation or as a source of food

89. Their actions \_\_\_\_\_ the lives of innocent people.

- v.* to put someone or something in a risky situation

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

- adj.* worthy of attention because unusual or special

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

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

92. Various artificially induced causes are \_\_\_\_\_ our ecosystem.

- v.* to utter intentions of injury or punishment against someone

93. They worked hard to \_\_\_\_\_ the nature of their native lands.

- v.* to keep or maintain a particular quality, feature, etc., especially to prevent it from decaying, being damaged, or being destroyed

ANSWERS: 86. triggered, 87. skeleton, 88. reindeer, 89. endangered, 90. remarkable, 91. rely, 92. threatening, 93. preserve

94. It was the \_\_\_\_\_ of a dinosaur tooth.

*n.* any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock

95. The recent economic downturn has resulted in \_\_\_\_\_ layoffs.

*adj.* enormous amount; very heavy and solid

96. \_\_\_\_\_ and weather have an impact on every part of our lifestyles.

*n.* the weather in a particular location averaged over some long period

97. The dinosaur bones were so old that they had been wholly \_\_\_\_\_ turning to stone over millions of years.

*adj.* transformed into a fossil (= something preserved in rock for a very long period) or preserved in the form of a fossil; antiquated or inflexible

98. The \_\_\_\_\_ in the park were very friendly and came right up to us looking for food.

*n.* a small to medium-sized rodent with a bushy tail, found in almost every part of the world

99. Despite the scandals, his reputation remained \_\_\_\_\_.

*adj.* undamaged and complete

100. The \_\_\_\_\_ scarcity most severely impacted the manufacturing sector

*n.* a substance that is typically burned to generate heat or energy

101. The temperature outside was \_\_\_\_\_ and I could feel the chill in my bones.

*adj.* below the freezing point (32 F or 0 C)

ANSWERS: 94. fossil, 95. massive, 96. Climate, 97. fossilized, 98. squirrels, 99. intact, 100. fuel, 101. subfreezing,

102. Her response revealed \_\_\_\_\_ idiocy.

*adj.* unbelievable; enormous

103. Solar gravity creates \_\_\_\_\_ pressures and temperatures.

*adj.* very great in amount or degree

104. Many people in this city use the \_\_\_\_\_ railway for transportation.

*n.* a shape like a curve or a circle made by something long and thin, such as a piece of string, that bends round and crosses itself

105. The detective looked for fingerprints on the window \_\_\_\_\_.

*n.* a strong border or structure of the wood, metal, etc. that surrounds something such as a picture, door, or window

106. The \_\_\_\_\_ effects of the policy change are still being felt.

*adj.* having a wide or significant impact or influence

ANSWERS: 102. incredible, 103. extreme, 104. loop, 105. frame, 106. far-reaching