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Juna Kollmeier: The most detailed map of galaxies, black holes and stars ever made | TED Talk

https://www.ted.com/talks/juna_kollmeier_the_most_detailed_map_of_galaxies_black_holes_and_stars_ever_made

All Words

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Session 1: Word List

monster

n. an imaginary creature that is large and has various human and animal parts; someone or something large and powerful

synonym : giant, freak, behemoth

(1) horde of **monsters**, (2) **monster** film

This car has a **monster** engine.

curiosity

n. a strong desire to know or learn about something

synonym : interest, inquisitiveness, novelty

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

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

fascinate

v. to attract and hold the attention of someone deeply and irresistibly

synonym : captivate, intrigue, mesmerize

(1) **fascinate** the public, (2) **fascinate** the young

The magic tricks **fascinated** the children.

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.

relic

n. an object from a previous era, especially one of historical value

synonym: whiff, vestige, antique

(1) historical **relic**, (2) holy **relics**

This bronze sword is a **relic** of ancient times.

attempt

n. an act or effort of trying to do something, especially something difficult

synonym: endeavor, effort, try

(1) the **attempt** to rescue the hostages, (2) a reckless **attempt**

The third **attempt** was far more successful.

tusk

n. a long, pointed tooth, usually found in animals such as elephants, walruses, or wild boars, which protrudes from the mouth and is used as a weapon or for digging

synonym: ivory, tush, horn

(1) **tusk** of an elephant, (2) **tusk-like** tooth

The ivory poacher was arrested for possession of illegal **tusks**.

carving

n. the act or process of cutting or shaping a hard material, such as wood or stone, into a specific form or design

synonym: sculpture, engraving, sculpture

(1) a wood **carving**, (2) **carving** instrument

The intricate **carving** on the wooden box was the work of a master craftsman.

neolithic

adj. (also called New Stone Age) the period of human history that followed the end of the last ice age and that is characterized by the development of agriculture and the use of polished stone tools

synonym: ancient, old, primitive

(1) the **neolithic** age, (2) **neolithic** society

The **neolithic** village was located near a river.

tomb

n. a large stone structure or underground chamber in which the dead are buried

synonym: grave, burial site, mausoleum

(1) bury in **tomb**, (2) the ancient **tomb**

The **tomb** of the unknown soldier honored the bravery and sacrifice of those who lost their lives in battle.

pile

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

synonym: accumulation, heap, stack

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

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

clam

n. a marine mollusk that burrows and lives on sand or mud, the shell closes with viselike firmness

(1) giant **clam**, (2) shuck a **clam**

The **clam** digs through the sand to a significant depth.

underneath

adv. under or below something else

synonym: below, under, beneath

(1) **underneath** the surface of the water, (2) **underneath** the laughter

The penny fell **underneath** the piano.

suppose

v. to think that something is likely to be actual or possible

synonym: guess, assume, presume

(1) **suppose** you're right, (2) **suppose** beforehand

What do you **suppose** the culprit's motive was?

dip

v. to put something into a liquid for a short time and take it out again

synonym: dunk, dive, plunge

(1) **dip** a pen in ink, (2) **dip** a chip in the sauce

Please **dip** up a bucketful of water from the well.

disk

n. a flat, circular plate, typically made of metal, glass, or plastic, used for storing data or playing music

synonym: record, platter, plate

(1) **disk** drive, (2) **disk** space

The computer's hard **disk** was full, so she had to delete some files.

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**.

astronomer

n. a physicist who studies astronomy

synonym: stargazer, cosmologist, astrophysicist

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

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

phase

n. any stage in a series of events, change, or development

synonym: degree, stage, step

(1) enter on the last **phase**, (2) two- **phase** structure

The era of the industrial revolution was a crucial **phase** of history.

eclipse

n. an obscuring of one celestial body by another, often used to describe a lunar or solar eclipse; a period of obscurity or decline, often used to describe a decline in popularity or influence; (verb) to surpass, overshadow, or outshine someone or something

synonym: overshadow, blackout, decadence

(1) partial **eclipse**, (2) **eclipse** a competitor

People across the country gathered to watch the solar **eclipse** in wonder and amazement.

galaxy

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

synonym: star cluster, nebula, star system

(1) elliptic **galaxy**, (2) a **galaxy** of famous actors

The Milky Way **galaxy** has numerous water-bearing planets.

planet

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

synonym : earth, world, globe

(1) **planet** like the Earth, (2) save the **planet**

Mercury is the closest **planet** to the sun.

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.

universe

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

synonym : cosmos, macrocosm

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

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

unrelenting

adj. not easing or slackening in intensity; persistent and unwavering in pursuit of a goal

synonym : relentless, persistent, unyielding

(1) **unrelenting** pressure, (2) **unrelenting** pursuit

The **unrelenting** heat made it difficult to sleep.

vary

v. to become different in terms of size, shape, etc.

synonym : alter, contrast, differ

(1) **vary** according to the age, (2) **vary** directly with the price

Maximum heart rates **vary** a lot for each individual.

engage

v. to attract and keep someone's attention and interest; to participate in or obtain services of something

synonym: confront, employ, amuse

- (1) **engage** in environmental protection activities,
- (2) **engage** a new employee

Many multinational companies are **engaged** in the reconstruction of that country.

battlefield

n. a place where a battle or conflict is fought

synonym: warzone, front line, combat area

- (1) **battlefield** casualties, (2) tactics on the **battlefield**

The general reviewed the plans for the upcoming battle on the **battlefield**.

core

n. the most essential or fundamental part of something

synonym: center, basis, heart

- (1) the **core** of an apple, (2) **core** business activity

These gas nebulas are merely newborn galactic **cores**.

involve

v. to include or affect someone or something as a necessary part of something else

synonym: implicate, include, engage

- (1) **involve** a lot of paperwork, (2) **involve** a high degree of risk

The investigation **involves** several government agencies and is expected to take several months.

essential

adj. indispensable; fundamental

synonym: critical, crucial, basic

- (1) **essential** amino acid, (2) **essential** commodities of life

Trial and error is an **essential** part of education.

telescope

n. a device like a tube in shape containing lenses used to magnify and observe distant objects

- (1) a binocular **telescope**, (2) look through a **telescope**

This facility has the largest astronomical **telescope** in the country.

instrument

n. an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work

synonym: apparatus, tool, device

(1) musical **instruments**, (2) surgical **instruments**

This electronic **instrument** is required to undergo periodic inspections to ensure precision.

brain

n. the organ inside the head that is responsible for one's movement, thought, memory, and feeling

synonym: intellect, mind, encephalon

(1) basic **brain** function, (2) permanent **brain** damage

X-rays revealed a small tumor in his **brain**.

buddy

n. a close friend; a partner, especially one of a pair or team

synonym: mate, peer, associate

(1) my golf **buddy**, (2) **buddy** movie

He was the first **buddy** in the military training camp.

precise

adj. sharply exact or accurate or delimited

synonym: accurate, exact, distinct

(1) **precise** analyses, (2) estimate **precise** costs

The content is **precise** and informative for me.

assistant

n. someone who helps or supports someone else to do a job

synonym: aide, helper, associate

(1) an unwilling **assistant**, (2) **assistant** professor

An executive **assistant** director administers each branch.

infinite

adj. unlimited or very great; impossible to measure

synonym: boundless, countless, limitless

(1) **infinite** appetite, (2) **infinite** in supply

The battle had an **infinite** impact on the nation.

observable

adj. that can be noticed or seen

synonym : visible, perceptible, detectable

(1) **observable** change, (2) experimentally **observable**

Any theorem relies on both **observable** fact and assumption.

finite

adj. having a limit or restriction of size, time, etc.

synonym : delimited, defined, limited

(1) **finite** resources, (2) **finite** decimal

Human beings have a **finite** lifespan, so we yearn for the idea of immortality.

bestie

n. a term of endearment used to describe one's closest friend, a term that connotes a deep and unbreakable bond between the two friends

synonym : friend, pal, buddy

(1) **bestie** bond, (2) longtime **bestie**

I love having a loyal and supportive **bestie** like her in my life.

creative

adj. relating to or involving the use of skill and original and unusual ideas to create something

synonym : imaginative, innovative, inventive

(1) **creative** writing, (2) barren of **creative** spirit

All the supervisor has to do is assign tasks that make his subordinates more **creative**.

craftsman

n. a skilled worker who creates handmade objects, especially one who works with wood, metal, or other materials

synonym : artisan, mechanic, workman

(1) **craftsman** skill, (2) a subtle **craftsman**

The adept **craftsman** carefully carved the wooden figurine with precision and skill.

accomplish

v. to finish or achieve something successfully

synonym : achieve, complete, execute

(1) **accomplish** a goal, (2) **accomplish** military operations

Humankind took centuries to **accomplish** true democracy.

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.

digital

adj. processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet

synonym: numerical, computerized, cyber

(1) a **digital** watch, (2) **digital** electronic signature

Sensors convert physical phenomena into **digital** signals.

survey

n. an investigation of the opinions, behavior, etc. of a particular group of people, made by asking people questions

synonym: study, examination, poll

(1) a comprehensive **survey**, (2) recent **survey**

That **survey** shows that people are accepting the tax increase to some extent.

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.

individual

n. a single person or thing, as distinct from a group

synonym: person, being, self

(1) a private **individual**, (2) **individual** freedom

As an **individual**, he had the right to make his own decisions and live his life as he saw fit.

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.

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.

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**.

machinery

n. a group of large machines or the components of a machine that make it work; social institution functions or structure for doing something

synonym : apparatus, appliance, equipment

(1) heavy **machinery**, (2) inactive **machinery**

The **machinery** of audit formally issued a business improvement order.

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.

frontier

n. a border that separates two countries, or the area near this line

synonym: border, boundary, borderland

(1) **frontier** disputes, (2) the Italian **frontier** with Switzerland

He worked at the **frontier** of behavioral economics.

divide

v. to separate or cause to separate into parts or groups

synonym: separate, disconnect, split

(1) **divide** the cake into two pieces, (2) **divide** money equally

Can you **divide** 123321 by eleven?

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**.

spectrograph

n. an instrument that separates light into its component wavelengths and records the distribution of intensities as a graph, used for chemical analysis or to determine the properties of stars and galaxies

synonym: spectrometer, spectroscope, instrument

(1) **spectrograph** analysis, (2) acoustic **spectrograph**

The **spectrograph** data showed that the element was composed of multiple spectral lines.

minus

adj. subtracting or taking away; having a value less than zero

synonym: without, lacking, negative

(1) **minus** sign, (2) **minus** temperature

The recipe calls for four cups of flour **minus** one tablespoon.

practical

adj. of or connected with actual use or real situation rather than with theory and ideas

synonym: applicable, functional, realistic

(1) **practical** English, (2) gain **practical** experience

Her concept is highly **practical** and helpful.

nowhere

adv. not in, at, or to any place; not anywhere

(1) **nowhere** else to go, (2) come out of **nowhere**
I've been thinking all day and getting **nowhere**.

unravel

v. undo twisted, knitted, or woven threads by separating it
synonym : separate, unknot, ravel

(1) **unravel** a knit, (2) **unravel** a plot

Detectives are still attempting to **unravel** the mystery of his death.

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.

chase

v. to pursue something or someone to catch or capture them; to go after something vigorously or with determination; (noun) a pursuit or a hunt; a narrow groove or channel cut into a surface, often used for decorative purposes

synonym : pursue, hunt, track

(1) **chase** a dream, (2) wild goose **chase**

The police officer **chased** the suspect through the crowded streets until they finally caught him.

perplexing

adj. causing confusion or uncertainty; difficult to understand or explain; puzzling or mystifying

synonym : puzzling, confusing, baffling

(1) **perplexing** situation, (2) **perplexing** problem

The novel's ambiguous ending left readers with a **perplexing** message.

mathematics

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

synonym: arithmetic, calculation, calculus

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

He has a flair for **mathematics**.

incarnate

adj. in bodily form; embodied

synonym: embodied, personified, manifested

(1) **incarnate** spirit, (2) a devil **incarnate**

The ancient people worshiped the **incarnate** deity.

animate

v. to make something full of interest and energy

synonym: invigorate, energize, enliven

(1) **animate** the body, (2) **animate** his soul

The positive attitude of the supervisor **animated** the discussion.

corridor

n. a hallway or passageway, especially one connecting rooms or areas within a building or structure

synonym: hallway, passageway, aisle

(1) walk along a **corridor**, (2) air **corridor**

The long **corridor** was filled with people rushing to get to their rooms before the meeting began.

weird

adj. extraordinary, unexpected, or difficult to explain

synonym: bizarre, creepy, peculiar

(1) a **weird** dress, (2) the state of being **weird**

My computer has been acting **weird** recently.

smoosh

v. to crush or flatten something; to press or squeeze something into a soft or shapeless mass

synonym: squash, mash, flatten

(1) **smooshed** my sandwich, (2) **smoosh** the delicate flowers

She had to **smoosh** the berries to make a jam, but it was

worth it for the delicious taste.

dense

adj. containing a large number of people or something with little space between them

synonym: heavy, thick, idiotic

(1) nutrient- **dense** foods, (2) **dense** forests

The entire mountain is covered in **dense** rainforest.

emit

v. to give off or send out something such as light, heat, sound, gas, etc.

synonym: give off, radiate, expel

(1) **emit** a gamma ray, (2) **emit** air pollution

During the unloading, the container box **emits** a clicking sound.

X-ray

n. a type of electromagnetic radiation that has a wavelength shorter than visible light allowing hidden objects such as bones and organs inside the body to be photographed

synonym: roentgenogram, photon radiography

(1) **X-ray** scan, (2) an **X-ray** of arteries

The doctor ordered an **X-ray** to see if there was any damage to the bones.

optical

adj. of or relating to or light or the ability to see; (noun) the science of light and vision, and to instruments and techniques used in the study and application of light

synonym: visual, ocular

(1) new **optical** glasses, (2) **optical** fiber

The **optical** illusion made it appear like the building was floating in midair.

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.

disturb

v. to interrupt someone who is trying to work, sleep, etc.

synonym: agitate, bother, intrude

(1) **disturb** the peace, (2) **disturb** his sleep

Tourists frequently **disturb** the island's delicate natural balance.

punk

n. a type of a loud, fast-moving, and aggressive form of rock music originating in the 1970s; an aggressive and violent young man or boy

synonym: hoodlum, bully, thug

(1) **punk** rock, (2) clothes of the **punk** style

We are never intimidated when dealing with young **punks**.

bizarre

adj. very strange or unusual

synonym: abnormal, freaky, outlandish

(1) the story is **bizarre**, (2) **bizarre** behavior

The truth was more **bizarre** than expected.

tremendous

adj. very great in degree or extent or amount or impact; extremely good

synonym: enormous, giant, immense

(1) **tremendous** amount, (2) **tremendous** popularity

We had a **tremendous** time yesterday.

transformation

n. a complete change in form, nature, or appearance of someone or something

synonym: change, conversion, renewal

(1) the **transformation** of a tadpole into a frog, (2) cast a **transformation** spell

Understanding unitary **transformations** of a normal matrix require considerable mathematical sophistication.

belly

n. the front part of the body below the chest, containing the stomach and bowels; the rounded or curved part of an object, such as a ship or aircraft

synonym: stomach, abdomen, gut

(1) the **belly** of the ship, (2) with an empty **belly**

She had a tattoo just above her **belly** button.

zoom

v. to move along very quickly; (noun) the act of rising upward into the air

synonym : move quickly, dive, buzz

(1) **zoom** in on a photo, (2) **zoom** lens

He **zoomed** back in time to the soccer game.

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.

vicious

adj. having or showing a desire to cause harm to others; having the nature of vice

synonym : malicious, spiteful, malevolent

(1) **vicious** attack, (2) **vicious** deflationary spiral

The **vicious** dog barked and growled at anyone who came near its territory.

ward

n. a room in a hospital for patients requiring special care

synonym : room, division, unit

(1) a children's **ward**, (2) **ward** nurse

The patient was moved to the intensive care **ward** for further treatment.

cleave

v. to split or divide something into two parts, often with force; to adhere or cling to something closely and cohesively

synonym : split, sever, cleave

(1) **cleave** meat, (2) **cleave** the party

He swung the axe with all his might to **cleave** the wood in

half.

arsenal

n. a collection of weapons or military equipment stored in preparation for war or conflict; a collection of resources or tools available for use in a particular field or endeavor
synonym: storage, stockpile, armory

(1) **arsenal** of knowledge, (2) political **arsenal**

The police found a hidden **arsenal** of weapons in the suspect's house.

observatory

n. a building designed and equipped to observe the planets, the stars, the weather, etc.

(1) space **observatory**, (2) a meteorological **observatory**

That astronomical **observatory** stands at the top of the mountain.

meter

n. a device used to measure the amount of a particular substance or attribute, such as length, volume, or time; (prosody) the accent in a metrical foot of verse

synonym: gauge, indicator, rhythm

(1) a gas **meter**, (2) poetic **meter**

The **meter** on the wall showed that the room was three meters long.

capture

v. to catch a person or an animal and confine them in an area which they cannot escape

synonym: catch, arrest, imprison

(1) **capture** a glimpse, (2) **capture** customers' hearts

I was able to **capture** the moment on film.

aperture

n. an opening or hole, especially one that is narrow or slitlike

synonym: opening, hole, gap

(1) small- **aperture** telescope, (2) an automatic **aperture**

The camera's **aperture** controls how much light enters the lens.

focal

adj. relating to an important or central point or area; sharp or precise in focus or detail

synonym : central, main, primary

(1) **focal** neurological deficit, (2) **focal** length

The photographer adjusted the camera to focus on the image's **focal** point.

entirely

adv. completely

synonym : completely, fully, totally

(1) **entirely** satisfied with the meal, (2) he was **entirely** to blame

Later, his claim was found to be **entirely** false.

robotic

adj. of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots

synonym : automated, mechanical, laborsaving

(1) **robotic** arm, (2) **robotic** guide operation

The surgeon removed the tumor using **robotic** video assistance.

fierce

adj. severe and violent in a way that is frightening

synonym : ferocious, convulsive, forceful

(1) **fierce** competition, (2) a **fierce** animal

The **fierce** thunders echoed across the plain.

terrifying

adj. very frightening or intimidating

synonym : frightening, intimidating, alarming

(1) **terrifying** experience, (2) **terrifying** events

Large earthquakes often generate **terrifying** tsunamis.

breath

n. the air that is taken into and expelled from your lungs; the process of taking into and expelling air from your lungs

synonym : air, puff, whiff

(1) hold your **breath**, (2) **breath** of wind

He bated his **breath** when talking about this affair.

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.

warn

v. to make someone aware of potential danger or difficulty, particularly one that may occur in the future

synonym: alert, caution, admonish

(1) **warn** a reckless driver, (2) **warned** me of the plan

I attempted to **warn** him, but he ignored me.

apology

n. an act of saying or writing that you are sorry for something that has been done wrong or that causes a trouble

synonym: regret, excuse, plea

(1) genuine **apology**, (2) accept his **apology**

She wrote a letter of **apology** to the renter.

blade

n. the flat part of a knife, weapon, or machine with a very thin edge used for cutting

synonym: knife, sword, cutter

(1) a **blade** of grass, (2) the **blade** of a turbine

The **blade** of the katana itself is still in excellent condition.

explode

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

synonym: detonate, blast, rupture

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

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

cosmic

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

synonym: astronomical, celestial, outer-space

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

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

backyard

n. a whole space behind and belonging to a house

synonym: courtyard, garden

(1) play in the **backyard**, (2) **backyard** barbecue

He grows vegetables in his **backyard**.

encode

v. to convert information into a code or format suitable for storage or transmission

synonym: transcribe, convert

(1) **encode** data, (2) **encode** information

The software can **encode** and decode encrypted messages.

physics

n. the science of matter and energy and their interactions

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

He studied the **physics** of radiation.

mow

v. to cut down and trim grass or other vegetation, usually with a machine such as a lawnmower; to cut down or harvest crops

synonym: cut, trim, clip

(1) **mow** the field, (2) **mow** a yard

My father likes to **mow** the lawn early on Saturday mornings.

recap

v. to repeat or summarize what has been said, decided, etc.

synonym: outline, summarize, abstract

(1) **recap** key points, (2) **recap** briefly

Let me quickly **recap** these results.

genius

n. someone who has exceptional intellectual ability and originality

synonym: brilliance, brainiac, acumen

(1) a person of **genius**, (2) a **genius** for music

Mozart was a musical **genius**.

analyze

v. to think about in-depth and evaluate to discover essential features or meaning

synonym: explore, examine, investigate

(1) **analyze** a chemical compound, (2) **analyze** your real motives

The teacher attempted to **analyze** the root cause of our mistake.

incredibly

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

synonym: enormously, exceptionally, extraordinarily

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

Several cities are experiencing **incredibly** high unemployment rates.

mandate

n. an official or authoritative instruction or command; a commission or authority to carry out a particular task

synonym: command, instruction, authority

(1) **mandate** obligation, (2) an Imperial **mandate**

The **mandate** given to the new government is to improve the economy.

foundation

n. the lowest load-bearing part of a building, typically below ground level; a fundamental basis or principle upon which something is built or established; an organization that provides funding or support for charitable or educational purposes

synonym: base, support, groundwork

(1) **foundation** course, (2) weak **foundation**

The **foundation** of the building was cracked and needed to be repaired.

publicly

adv. in a manner accessible to or observable by the public; by the government

synonym: candidly, openly, honestly

(1) **publicly** accessible record, (2) **publicly** financed

schools

She **publicly** denounced the government's mishandling of the economic crisis.

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.

clap

v. to hit your hands together and make a short and loud noise, mainly to show your approval or praise

synonym: applaud, spat, acclaim

(1) **clap** my hands, (2) **clap** a book shut

We **clapped** along with the singer's song.

warrior

n. a person who engaged in or experienced warfare, especially in the past

synonym: fighter, soldier, combatant

(1) armored **warrior**, (2) **warrior** spirit

The poem depicts the heroics of a legendary **warrior**.

fancy

v. to want to do or have something; (noun) something that many people believe but that is false, or that does not exist; imagination or fantasy

synonym: imagine, visualize, (noun) fantasy

(1) **fancy** a cup of coffee, (2) a flight of **fancy**

I don't **fancy** acting in such an important role.

astrophysics

n. the branch of physics concerned with the study of the properties and behavior of celestial objects and the physical processes that govern the behavior and evolution of the universe

(1) **astrophysics** research, (2) neutrino **astrophysics**

He was studying **astrophysics** in an attempt to understand the origins of the universe.

participate

v. to take part in something

synonym: take part, partake, enter

(1) **participate** fully in conversation, (2) **participate** in the program

The majority of students actively **participated** in the college's intramural sports program.

hypothesis

n. a proposed idea or explanation that is based on a few known facts but has not yet been proven to be true or accurate

synonym: assumption, conjecture, theory

(1) test my **hypothesis**, (2) a bold **hypothesis**

This evidence supports the big-bang **hypothesis**.

creature

n. a living being, especially an animal

synonym: being, animal, organism

(1) **creature** of habit, (2) artificial **creature**

The deep sea **creature** was unlike anything the scientists had ever seen before.

rubble

n. fragments of rock, stone, or other materials that remain after a building or other structure has been destroyed or demolished; the remains of something that has been broken down or destroyed

synonym: debris, ruins, wreckage

(1) clear away **rubble**, (2) **rubble-strewn** road

After the earthquake, the city was left in a pile of **rubble**.

dot

n. a very small circular mark, especially one that is printed

synonym: drop, dab, fleck

(1) connecting the **dots**, (2) **dot** blot method

The wallpaper had a pattern of pink **dots** on a white surface.

arrange

v. to plan, prepare for, and carry out something

synonym: set up, order, organize

(1) **arrange** the meeting, (2) the list was **arranged**

alphabetically

I need to **arrange** plans with him for the celebration.

relative

adj. considered and evaluated through comparison with something else

synonym : comparative, proximate, congeneric

(1) a remote **relative**, (2) **relative** factors

Most countries prohibit sexual activity between certain close **relatives**.

Session 2: Spelling

- | | |
|-------------------------------|---|
| 1. expansion of the un_____se | <i>n.</i> everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy |
| 2. con_____ial book | <i>adj.</i> causing a lot of hot public discussion and dispute |
| 3. pr_____s improvement | <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 |
| 4. a we__d dress | <i>adj.</i> extraordinary, unexpected, or difficult to explain |
| 5. a subtle cr_____an | <i>n.</i> a skilled worker who creates handmade objects, especially one who works with wood, metal, or other materials |
| 6. ba_____rd barbecue | <i>n.</i> a whole space behind and belonging to a house |
| 7. ast_____ics research | <i>n.</i> the branch of physics concerned with the study of the properties and behavior of celestial objects and the physical processes that govern the behavior and evolution of the universe |
| 8. ca_____g instrument | <i>n.</i> the act or process of cutting or shaping a hard material, such as wood or stone, into a specific form or design |

ANSWERS: 1. universe, 2. controversial, 3. process, 4. weird, 5. craftsman, 6. backyard, 7. astrophysics, 8. carving

9. ro____c arm *adj.* of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots
10. an automatic ap____re *n.* an opening or hole, especially one that is narrow or slitlike
11. bat______ld casualties *n.* a place where a battle or conflict is fought
12. ar____l of knowledge *n.* a collection of weapons or military equipment stored in preparation for war or conflict; a collection of resources or tools available for use in a particular field or endeavor
13. fa____te the public *v.* to attract and hold the attention of someone deeply and irresistibly
14. pr____e analyses *adj.* sharply exact or accurate or delimited
15. v__y according to the age *v.* to become different in terms of size, shape, etc.
16. longtime be____e *n.* a term of endearment used to describe one's closest friend, a term that connotes a deep and unbreakable bond between the two friends
17. di____b his sleep *v.* to interrupt someone who is trying to work, sleep, etc.
18. barren of cr____ve spirit *adj.* relating to or involving the use of skill and original and unusual ideas to create something
19. surgical ins____nts *n.* an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work

ANSWERS: 9. robotic, 10. aperture, 11. battlefield, 12. arsenal, 13. fascinate, 14. precise, 15. vary, 16. bestie, 17. disturb, 18. creative, 19. instrument

20. di___e money equally *v.* to separate or cause to separate into parts or groups
21. with an empty be__y *n.* the front part of the body below the chest, containing the stomach and bowels; the rounded or curved part of an object, such as a ship or aircraft
22. weak fou_____on *n.* the lowest load-bearing part of a building, typically below ground level; a fundamental basis or principle upon which something is built or established; an organization that provides funding or support for charitable or educational purposes
23. ad_____e a cooperative relationship *v.* to go or move forward; to develop in a positive way
24. fa__y a cup of coffee *v.* to want to do or have something; (noun) something that many people believe but that is false, or that does not exist; imagination or fantasy
25. 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
26. musical ins_____nts *n.* an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work
27. the c__e of an apple *n.* the most essential or fundamental part of something

ANSWERS: 20. divide, 21. belly, 22. foundation, 23. advance, 24. fancy, 25. planet, 26. instrument, 27. core

28. northern hem_____re
n. half of the terrestrial globe; half of a sphere
29. per_____ng situation
adj. causing confusion or uncertainty; difficult to understand or explain; puzzling or mystifying
30. su_____e you're right
v. to think that something is likely to be actual or possible
31. a private ind_____al
n. a single person or thing, as distinct from a group
32. sh_____rd boy
n. a person who tends and guards sheep, especially in a rural area
33. ca_____e customers' hearts
v. to catch a person or an animal and confine them in an area which they cannot escape
34. clear away ru____e
n. fragments of rock, stone, or other materials that remain after a building or other structure has been destroyed or demolished; the remains of something that has been broken down or destroyed
35. horde of mo_____rs
n. an imaginary creature that is large and has various human and animal parts; someone or something large and powerful
36. connecting the d_t_s
n. a very small circular mark, especially one that is printed
37. un_____l a plot
v. undo twisted, knitted, or woven threads by separating it
38. ca_____e a glimpse
v. to catch a person or an animal and confine them in an area which they cannot escape

ANSWERS: 28. hemisphere, 29. perplexing, 30. suppose, 31. individual, 32. shepherd, 33. capture, 34. rubble, 35. monster, 36. dot, 37. unravel, 38. capture

39. an____e his soul *v.* to make something full of interest and energy
40. bu__y movie *n.* a close friend; a partner, especially one of a pair or team
41. shuck a c__m *n.* a marine mollusk that burrows and lives on sand or mud, the shell closes with viselike firmness
42. ma_____e obligation *n.* an official or authoritative instruction or command; a commission or authority to carry out a particular task
43. beginning of the ind_____al revolution *adj.* of or relating to or resulting from industry
44. w__ned me of the plan *v.* to make someone aware of potential danger or difficulty, particularly one that may occur in the future
45. historical re__c *n.* an object from a previous era, especially one of historical value
46. armored wa_____r *n.* a person who engaged in or experienced warfare, especially in the past
47. per_____ng problem *adj.* causing confusion or uncertainty; difficult to understand or explain; puzzling or mystifying
48. vi_____s attack *adj.* having or showing a desire to cause harm to others; having the nature of vice
49. bi_____e behavior *adj.* very strange or unusual
50. d__k drive *n.* a flat, circular plate, typically made of metal, glass, or plastic, used for storing data or playing music

ANSWERS: 39. animate, 40. buddy, 41. clam, 42. mandate, 43. industrial, 44. warn, 45. relic, 46. warrior, 47. perplexing, 48. vicious, 49. bizarre, 50. disk

51. the list was ar_____ed alphabetically *v.* to plan, prepare for, and carry out something
52. con_____ial policy *adj.* causing a lot of hot public discussion and dispute
53. an X-__y of arteries *n.* a type of electromagnetic radiation that has a wavelength shorter than visible light allowing hidden objects such as bones and organs inside the body to be photographed
54. experimentally obs_____le *adj.* that can be noticed or seen
55. es_____al amino acid *adj.* indispensable; fundamental
56. ter_____ng events *adj.* very frightening or intimidating
57. fa_____te the young *v.* to attract and hold the attention of someone deeply and irresistibly
58. artificial cr_____re *n.* a living being, especially an animal
59. accept his ap_____y *n.* an act of saying or writing that you are sorry for something that has been done wrong or that causes a trouble
60. par_____te fully in conversation *v.* to take part in something
61. fi___e resources *adj.* having a limit or restriction of size, time, etc.
62. en___e data *v.* to convert information into a code or format suitable for storage or transmission
63. ro_____c guide operation *adj.* of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots

ANSWERS: 51. arrange, 52. controversial, 53. X-ray, 54. observable, 55. essential, 56. terrifying, 57. fascinate, 58. creature, 59. apology, 60. participate, 61. finite, 62. encode, 63. robotic

64. ex____e in popularity *v.* to burst or break open violently and noisily; to cause something to burst or break open
65. en____ly satisfied with the meal *adv.* completely
66. a flight of fa__y *v.* to want to do or have something; (noun) something that many people believe but that is false, or that does not exist; imagination or fantasy
67. cr____re of habit *n.* a living being, especially an animal
68. 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
69. sm____hed my sandwich *v.* to crush or flatten something; to press or squeeze something into a soft or shapeless mass
70. the height of a p__e *n.* a collection of objects positioned one on top of another; a large sum of something, such as money
71. poetic me__r *n.* a device used to measure the amount of a particular substance or attribute, such as length, volume, or time; (prosody) the accent in a metrical foot of verse
72. no____e else to go *adv.* not in, at, or to any place; not anywhere
73. permanent br__n damage *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling

ANSWERS: 64. explode, 65. entirely, 66. fancy, 67. creature, 68. discovery, 69. smooch, 70. pile, 71. meter, 72. nowhere, 73. brain

74. the ancient t__b *n.* a large stone structure or underground chamber in which the dead are buried
75. sm___h the delicate flowers *v.* to crush or flatten something; to press or squeeze something into a soft or shapeless mass
76. the Italian fr_____er with Switzerland *n.* a border that separates two countries, or the area near this line
77. 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
78. a bold hyp_____is *n.* a proposed idea or explanation that is based on a few known facts but has not yet been proven to be true or accurate
79. nuclear ph_____s *n.* the science of matter and energy and their interactions
80. the state of being we__d *adj.* extraordinary, unexpected, or difficult to explain
81. e__t air pollution *v.* to give off or send out something such as light, heat, sound, gas, etc.
82. a remote re_____ve *adj.* considered and evaluated through comparison with something else
83. en___e in environmental protection activities *v.* to attract and keep someone's attention and interest; to participate in or obtain services of something
84. acoustic spe_____aph *n.* an instrument that separates light into its component wavelengths and records the distribution of intensities as a graph, used for chemical analysis or to determine the properties of stars and galaxies

ANSWERS: 74. tomb, 75. smooch, 76. frontier, 77. disease, 78. hypothesis, 79. physics, 80. weird, 81. emit, 82. relative, 83. engage, 84. spectrograph

85. a gas me__r *n.* a device used to measure the amount of a particular substance or attribute, such as length, volume, or time; (prosody) the accent in a metrical foot of verse
86. cl___e the party *v.* to split or divide something into two parts, often with force; to adhere or cling to something closely and cohesively
87. en___e a new employee *v.* to attract and keep someone's attention and interest; to participate in or obtain services of something
88. par_____te in the program *v.* to take part in something
89. new op_____l glasses *adj.* of or relating to or light or the ability to see; (noun) the science of light and vision, and to instruments and techniques used in the study and application of light
90. d_p a chip in the sauce *v.* to put something into a liquid for a short time and take it out again
91. solar ast_____er *n.* a physicist who studies astronomy
92. be___e bond *n.* a term of endearment used to describe one's closest friend, a term that connotes a deep and unbreakable bond between the two friends
93. ind_____al freedom *n.* a single person or thing, as distinct from a group
94. mat_____cs competition *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement

ANSWERS: 85. meter, 86. cleave, 87. engage, 88. participate, 89. optical, 90. dip, 91. astronomer, 92. bestie, 93. individual, 94. mathematics

95. und_____th the laughter *adv.* under or below something else
96. fo__l neurological deficit *adj.* relating to an important or central point or area; sharp or precise in focus or detail
97. pr_____al English *adj.* of or connected with actual use or real situation rather than with theory and ideas
98. re__p key points *v.* to repeat or summarize what has been said, decided, etc.
99. an_____e your real motives *v.* to think about in-depth and evaluate to discover essential features or meaning
100. vi_____s deflationary spiral *adj.* having or showing a desire to cause harm to others; having the nature of vice
101. test my hyp_____is *n.* a proposed idea or explanation that is based on a few known facts but has not yet been proven to be true or accurate
102. theory of the un_____se *n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
103. mo_____r film *n.* an imaginary creature that is large and has various human and animal parts; someone or something large and powerful
104. spe_____aph analysis *n.* an instrument that separates light into its component wavelengths and records the distribution of intensities as a graph, used for chemical analysis or to determine the properties of stars and galaxies

ANSWERS: 95. underneath, 96. focal, 97. practical, 98. recap, 99. analyze, 100. vicious, 101. hypothesis, 102. universe, 103. monster, 104. spectrograph

105. di___e the cake into two pieces *v.* to separate or cause to separate into parts or groups
106. pu____ly accessible record *adv.* in a manner accessible to or observable by the public; by the government
107. inc_____ly cheerful character *adv.* in a way that is very difficult to believe; exceedingly or extremely
108. w__n a reckless driver *v.* to make someone aware of potential danger or difficulty, particularly one that may occur in the future
109. basic br__n function *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
110. en___e information *v.* to convert information into a code or format suitable for storage or transmission
111. ex_____e in anger *v.* to burst or break open violently and noisily; to cause something to burst or break open
112. es_____al commodities of life *adj.* indispensable; fundamental
113. decision-making pr____s *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
114. w__d nurse *n.* a room in a hospital for patients requiring special care

ANSWERS: 105. divide, 106. publicly, 107. incredibly, 108. warn, 109. brain, 110. encode, 111. explode, 112. essential, 113. process, 114. ward

115. und_____th the surface of the water *adv.* under or below something else
116. e__t a gamma ray *v.* to give off or send out something such as light, heat, sound, gas, etc.
117. second co___c velocity *adj.* relating to the universe or cosmos; vast or limitless
118. recent su___y *n.* an investigation of the opinions, behavior, etc. of a particular group of people, made by asking people questions
119. unr_____ng pursuit *adj.* not easing or slackening in intensity; persistent and unwavering in pursuit of a goal
120. acc_____sh a goal *v.* to finish or achieve something successfully
121. air co_____or *n.* a hallway or passageway, especially one connecting rooms or areas within a building or structure
122. giant c__m *n.* a marine mollusk that burrows and lives on sand or mud, the shell closes with viselike firmness
123. unr_____ng pressure *adj.* not easing or slackening in intensity; persistent and unwavering in pursuit of a goal
124. ext_____ary ability *adj.* exceptional, unexpected, very unusual; surpassing the ordinary or usual
125. ind_____al alcohol *adj.* of or relating to or resulting from industry

ANSWERS: 115. underneath, 116. emit, 117. cosmic, 118. survey, 119. unrelenting, 120. accomplish, 121. corridor, 122. clam, 123. unrelenting, 124. extraordinary, 125. industrial

126. inactive ma_____ry *n.* a group of large machines or the components of a machine that make it work; social institution functions or structure for doing something
127. laws of ph_____s *n.* the science of matter and energy and their interactions
128. hold your br____h *n.* the air that is taken into and expelled from your lungs; the process of taking into and expelling air from your lungs
129. bury in t__b *n.* a large stone structure or underground chamber in which the dead are buried
130. in_____te appetite *adj.* unlimited or very great; impossible to measure
131. a sand p__e *n.* a collection of objects positioned one on top of another; a large sum of something, such as money
132. fi____e competition *adj.* severe and violent in a way that is frightening
133. mi__s temperature *adj.* subtracting or taking away; having a value less than zero
134. ne_____ic society *adj.* (also called New Stone Age) the period of human history that followed the end of the last ice age and that is characterized by the development of agriculture and the use of polished stone tools
135. fou_____on course *n.* the lowest load-bearing part of a building, typically below ground level; a fundamental basis or principle upon which something is built or established; an organization that provides funding or support for charitable or educational purposes

ANSWERS: 126. machinery, 127. physics, 128. breath, 129. tomb, 130. infinite, 131. pile, 132. fierce, 133. minus, 134. neolithic, 135. foundation

136. play in the ba____rd *n.* a whole space behind and belonging to a house
137. wild goose ch__e *v.* to pursue something or someone to catch or capture them; to go after something vigorously or with determination; (noun) a pursuit or a hunt; a narrow groove or channel cut into a surface, often used for decorative purposes
138. cerebral hem_____re *n.* half of the terrestrial globe; half of a sphere
139. genuine ap____y *n.* an act of saying or writing that you are sorry for something that has been done wrong or that causes a trouble
140. br___h of wind *n.* the air that is taken into and expelled from your lungs; the process of taking into and expelling air from your lungs
141. m_w the field *v.* to cut down and trim grass or other vegetation, usually with a machine such as a lawnmower; to cut down or harvest crops
142. attract br__d attention *adj.* very wide; general
143. the be__y of the ship *n.* the front part of the body below the chest, containing the stomach and bowels; the rounded or curved part of an object, such as a ship or aircraft
144. ar_____e the meeting *v.* to plan, prepare for, and carry out something
145. enter on the last ph__e *n.* any stage in a series of events, change, or development

ANSWERS: 136. backyard, 137. chase, 138. hemisphere, 139. apology, 140. breath, 141. mow, 142. broad, 143. belly, 144. arrange, 145. phase

146. heavy ma_____ry *n.* a group of large machines or the components of a machine that make it work; social institution functions or structure for doing something
147. gain pr_____al experience *adj.* of or connected with actual use or real situation rather than with theory and ideas
148. as_____nt professor *n.* someone who helps or supports someone else to do a job
149. p__k rock *n.* a type of a loud, fast-moving, and aggressive form of rock music originating in the 1970s; an aggressive and violent young man or boy
150. pu_____ly financed schools *adv.* in a manner accessible to or observable by the public; by the government
151. in_____e a lot of paperwork *v.* to include or affect someone or something as a necessary part of something else
152. 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
153. cr_____an skill *n.* a skilled worker who creates handmade objects, especially one who works with wood, metal, or other materials
154. un_____l a knit *v.* undo twisted, knitted, or woven threads by separating it
155. op_____l fiber *adj.* of or relating to or light or the ability to see; (noun) the science of light and vision, and to instruments and techniques used in the study and application of light

ANSWERS: 146. machinery, 147. practical, 148. assistant, 149. punk, 150. publicly, 151. involve, 152. discovery, 153. craftsman, 154. unravel, 155. optical

156. z__m lens *v.* to move along very quickly; (noun) the act of rising upward into the air
157. the at_____t to rescue the hostages *n.* an act or effort of trying to do something, especially something difficult
158. a binocular te_____pe *n.* a device like a tube in shape containing lenses used to magnify and observe distant objects
159. cr_____ve writing *adj.* relating to or involving the use of skill and original and unusual ideas to create something
160. holy re__cs *n.* an object from a previous era, especially one of historical value
161. su_____e beforehand *v.* to think that something is likely to be actual or possible
162. an Imperial ma_____e *n.* an official or authoritative instruction or command; a commission or authority to carry out a particular task
163. come out of no_____e *adv.* not in, at, or to any place; not anywhere
164. ma_____e amounts *adj.* enormous amount; very heavy and solid
165. d_t blot method *n.* a very small circular mark, especially one that is printed
166. a children's w__d *n.* a room in a hospital for patients requiring special care
167. 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: 156. zoom, 157. attempt, 158. telescope, 159. creative, 160. relic, 161. suppose, 162. mandate, 163. nowhere, 164. massive, 165. dot, 166. ward, 167. disease

168. in_____te spirit *adj.* in bodily form; embodied
169. d__k space *n.* a flat, circular plate, typically made of metal, glass, or plastic, used for storing data or playing music
170. an unwilling as_____nt *n.* someone who helps or supports someone else to do a job
171. t__k of an elephant *n.* a long, pointed tooth, usually found in animals such as elephants, walruses, or wild boars, which protrudes from the mouth and is used as a weapon or for digging
172. boundless cu_____ty *n.* a strong desire to know or learn about something
173. fo__l length *adj.* relating to an important or central point or area; sharp or precise in focus or detail
174. a reckless at_____t *n.* an act or effort of trying to do something, especially something difficult
175. the story is bi_____e *adj.* very strange or unusual
176. tre_____us amount *adj.* very great in degree or extent or amount or impact; extremely good
177. a fo__l leaf *n.* any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock
178. an_____t stories *adj.* relating to the long ago, particularly the historical period preceding the fall of the Western Roman Empire; very old

ANSWERS: 168. incarnate, 169. disk, 170. assistant, 171. tusk, 172. curiosity, 173. focal, 174. attempt, 175. bizarre, 176. tremendous, 177. fossil, 178. ancient

179. my golf bu__y *n.* a close friend; a partner, especially one of a pair or team
180. two-ph__e structure *n.* any stage in a series of events, change, or development
181. 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
182. tr____r a biochemical response *v.* to make something happen suddenly; to cause something such as a device, machine, etc. to function
183. acc_____sh military operations *v.* to finish or achieve something successfully
184. satisfy my intellectual cu_____ty *n.* a strong desire to know or learn about something
185. di_____l electronic signature *adj.* processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet
186. a di_____l watch *adj.* processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet
187. an_____e a chemical compound *v.* to think about in-depth and evaluate to discover essential features or meaning
188. pr_____ve a country's heritage *v.* to keep or maintain a particular quality, feature, etc., especially to prevent it from decaying, being damaged, or being destroyed

ANSWERS: 179. buddy, 180. phase, 181. fossil, 182. trigger, 183. accomplish, 184. curiosity, 185. digital, 186. digital, 187. analyze, 188. preserve

189. a person of ge___s *n.* someone who has exceptional intellectual ability and originality
190. a fi___e animal *adj.* severe and violent in a way that is frightening
191. get inc_____ly insecure *adv.* in a way that is very difficult to believe; exceedingly or extremely
192. wa_____r spirit *n.* a person who engaged in or experienced warfare, especially in the past
193. political ar_____l *n.* a collection of weapons or military equipment stored in preparation for war or conflict; a collection of resources or tools available for use in a particular field or endeavor
194. co___c background radiation *adj.* relating to the universe or cosmos; vast or limitless
195. ch__e a dream *v.* to pursue something or someone to catch or capture them; to go after something vigorously or with determination; (noun) a pursuit or a hunt; a narrow groove or channel cut into a surface, often used for decorative purposes
196. partial ec_____e *n.* an obscuring of one celestial body by another, often used to describe a lunar or solar eclipse; a period of obscurity or decline, often used to describe a decline in popularity or influence; (verb) to surpass, overshadow, or outshine someone or something

ANSWERS: 189. genius, 190. fierce, 191. incredibly, 192. warrior, 193. arsenal, 194. cosmic, 195. chase, 196. eclipse

197. elliptic ga___y *n.* an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity
198. re__p briefly *v.* to repeat or summarize what has been said, decided, etc.
199. 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
200. cast a tra_____ion spell *n.* a complete change in form, nature, or appearance of someone or something
201. ter_____ng experience *adj.* very frightening or intimidating
202. the tra_____ion of a tadpole into a frog *n.* a complete change in form, nature, or appearance of someone or something
203. c__e business activity *n.* the most essential or fundamental part of something
204. in_____te in supply *adj.* unlimited or very great; impossible to measure
205. amateur ast_____er *n.* a physicist who studies astronomy
206. estimate pr_____e costs *adj.* sharply exact or accurate or delimited
207. ru___e-strewn road *n.* fragments of rock, stone, or other materials that remain after a building or other structure has been destroyed or demolished; the remains of something that has been broken down or destroyed
208. he was en_____ly to blame *adv.* completely

ANSWERS: 197. galaxy, 198. recap, 199. preserve, 200. transformation, 201. terrifying, 202. transformation, 203. core, 204. infinite, 205. astronomer, 206. precise, 207. rubble, 208. entirely

209. re____ve factors *adj.* considered and evaluated through comparison with something else
210. clothes of the p__k style *n.* a type of a loud, fast-moving, and aggressive form of rock music originating in the 1970s; an aggressive and violent young man or boy
211. c__p a book shut *v.* to hit your hands together and make a short and loud noise, mainly to show your approval or praise
212. nutrient-de__e foods *adj.* containing a large number of people or something with little space between them
213. sheep without a sh____rd *n.* a person who tends and guards sheep, especially in a rural area
214. a devil in____te *adj.* in bodily form; embodied
215. tactics on the bat____ld *n.* a place where a battle or conflict is fought
216. a good grounding in mat____cs *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
217. the bl__e of a turbine *n.* the flat part of a knife, weapon, or machine with a very thin edge used for cutting
218. an____e the body *v.* to make something full of interest and energy
219. walk along a co____or *n.* a hallway or passageway, especially one connecting rooms or areas within a building or structure

ANSWERS: 209. relative, 210. punk, 211. clap, 212. dense, 213. shepherd, 214. incarnate, 215. battlefield, 216. mathematics, 217. blade, 218. animate, 219. corridor

220. look through a te_____pe *n.* a device like a tube in shape containing lenses used to magnify and observe distant objects
221. ma_____e stars *adj.* enormous amount; very heavy and solid
222. v__y directly with the price *v.* to become different in terms of size, shape, etc.
223. di_____b the peace *v.* to interrupt someone who is trying to work, sleep, etc.
224. de__e forests *adj.* containing a large number of people or something with little space between them
225. 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
226. m_w a yard *v.* to cut down and trim grass or other vegetation, usually with a machine such as a lawnmower; to cut down or harvest crops
227. obs_____le change *adj.* that can be noticed or seen
228. c__p my hands *v.* to hit your hands together and make a short and loud noise, mainly to show your approval or praise
229. fr_____er disputes *n.* a border that separates two countries, or the area near this line
230. a ge____s for music *n.* someone who has exceptional intellectual ability and originality
231. a meteorological obs_____ry *n.* a building designed and equipped to observe the planets, the stars, the weather, etc.

ANSWERS: 220. telescope, 221. massive, 222. vary, 223. disturb, 224. dense, 225. planet, 226. mow, 227. observable, 228. clap, 229. frontier, 230. genius, 231. observatory

232. a br__d mind *adj.* very wide; general
233. a bl__e of grass *n.* the flat part of a knife, weapon, or machine with a very thin edge used for cutting
234. space obs_____ry *n.* a building designed and equipped to observe the planets, the stars, the weather, etc.
235. ec_____e a competitor *n.* an obscuring of one celestial body by another, often used to describe a lunar or solar eclipse; a period of obscurity or decline, often used to describe a decline in popularity or influence; (verb) to surpass, overshadow, or outshine someone or something
236. ad_____e the technology *v.* to go or move forward; to develop in a positive way
237. z__m in on a photo *v.* to move along very quickly; (noun) the act of rising upward into the air
238. pre-Christian an_____t *adj.* relating to the long ago, particularly the historical period preceding the fall of the Western Roman Empire; very old
239. cl_____e meat *v.* to split or divide something into two parts, often with force; to adhere or cling to something closely and cohesively
240. fi_____e decimal *adj.* having a limit or restriction of size, time, etc.
241. tr_____r inflation *v.* to make something happen suddenly; to cause something such as a device, machine, etc. to function

ANSWERS: 232. broad, 233. blade, 234. observatory, 235. eclipse, 236. advance, 237. zoom, 238. ancient, 239. cleave, 240. finite, 241. trigger

242. X-__y scan *n.* a type of electromagnetic radiation that has a wavelength shorter than visible light allowing hidden objects such as bones and organs inside the body to be photographed
243. neutrino ast_____ics *n.* the branch of physics concerned with the study of the properties and behavior of celestial objects and the physical processes that govern the behavior and evolution of the universe
244. small-ap_____re telescope *n.* an opening or hole, especially one that is narrow or slitlike
245. tre_____us popularity *adj.* very great in degree or extent or amount or impact; extremely good
246. d_p a pen in ink *v.* to put something into a liquid for a short time and take it out again
247. a wood ca_____g *n.* the act or process of cutting or shaping a hard material, such as wood or stone, into a specific form or design
248. a ga___y of famous actors *n.* an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity
249. in_____e a high degree of risk *v.* to include or affect someone or something as a necessary part of something else
250. mi__s sign *adj.* subtracting or taking away; having a value less than zero
251. the ne_____ic age *adj.* (also called New Stone Age) the period of human history that followed the end of the last ice age and that is characterized by the development of agriculture and the use of polished stone tools

ANSWERS: 242. X-ray, 243. astrophysics, 244. aperture, 245. tremendous, 246. dip, 247. carving, 248. galaxy, 249. involve, 250. minus, 251. neolithic

252. t__k-like tooth

n. a long, pointed tooth, usually found in animals such as elephants, walruses, or wild boars, which protrudes from the mouth and is used as a weapon or for digging

253. a comprehensive su___y

n. an investigation of the opinions, behavior, etc. of a particular group of people, made by asking people questions

254. ext_____ary weather

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

ANSWERS: 252. tusk, 253. survey, 254. extraordinary

Session 3: Fill in the Blanks

1. Detectives are still attempting to _____ the mystery of his death.
v. undo twisted, knitted, or woven threads by separating it
2. He was the first _____ in the military training camp.
n. a close friend; a partner, especially one of a pair or team
3. He worked at the _____ of behavioral economics.
n. a border that separates two countries, or the area near this line
4. We _____ along with the singer's song.
v. to hit your hands together and make a short and loud noise, mainly to show your approval or praise
5. The software can _____ and decode encrypted messages.
v. to convert information into a code or format suitable for storage or transmission
6. The Milky Way _____ has numerous water-bearing planets.
n. an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity
7. He grows vegetables in his _____.
n. a whole space behind and belonging to a house
8. Please _____ up a bucketful of water from the well.
v. to put something into a liquid for a short time and take it out again
9. My father likes to _____ the lawn early on Saturday mornings.
v. to cut down and trim grass or other vegetation, usually with a machine such as a lawnmower; to cut down or harvest crops

ANSWERS: 1. unravel, 2. buddy, 3. frontier, 4. clapped, 5. encode, 6. galaxy, 7. backyard, 8. dip, 9. mow

10. The issue of the death penalty is highly _____.

adj. causing a lot of hot public discussion and dispute

11. Later, his claim was found to be _____ false.

adv. completely

12. She wrote a letter of _____ to the renter.

n. an act of saying or writing that you are sorry for something that has been done wrong or that causes a trouble

13. The _____ of the unknown soldier honored the bravery and sacrifice of those who lost their lives in battle.

n. a large stone structure or underground chamber in which the dead are buried

14. As an _____ he had the right to make his own decisions and live his life as he saw fit.

n. a single person or thing, as distinct from a group

15. We are motivated by _____ rather than necessity.

n. a strong desire to know or learn about something

16. The incident _____ a political controversy.

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

17. This weather pattern is unique to the southern _____.

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

18. The police found a hidden _____ of weapons in the suspect's house.

n. a collection of weapons or military equipment stored in preparation for war or conflict; a collection of resources or tools available for use in a particular field or endeavor

ANSWERS: 10. controversial, 11. entirely, 12. apology, 13. tomb, 14. individual, 15. curiosity, 16. triggered, 17. hemisphere, 18. arsenal

19. 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

20. During the unloading, the container box _____ a clicking sound.

- v.* to give off or send out something such as light, heat, sound, gas, etc.

21. What do you _____ the culprit's motive was?

- v.* to think that something is likely to be actual or possible

22. The general reviewed the plans for the upcoming battle on the _____.

- n.* a place where a battle or conflict is fought

23. He was studying _____ in an attempt to understand the origins of the universe.

- n.* the branch of physics concerned with the study of the properties and behavior of celestial objects and the physical processes that govern the behavior and evolution of the universe

24. The adept _____ carefully carved the wooden figurine with precision and skill.

- n.* a skilled worker who creates handmade objects, especially one who works with wood, metal, or other materials

25. Scientific knowledge will _____ significantly with the power of AI.

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

26. The novel's ambiguous ending left readers with a _____ message.

- adj.* causing confusion or uncertainty; difficult to understand or explain; puzzling or mystifying

ANSWERS: 19. fossil, 20. emits, 21. suppose, 22. battlefield, 23. astrophysics, 24. craftsman, 25. advance, 26. perplexing

27. The old building _____ in a fiery inferno.

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

28. This electronic _____ is required to undergo periodic inspections to ensure precision.

- n.* an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work

29. Several cities are experiencing _____ high unemployment rates.

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

30. This car has a _____ engine.

- n.* an imaginary creature that is large and has various human and animal parts; someone or something large and powerful

31. He bated his _____ when talking about this affair.

- n.* the air that is taken into and expelled from your lungs; the process of taking into and expelling air from your lungs

32. We are never intimidated when dealing with young _____.

- n.* a type of a loud, fast-moving, and aggressive form of rock music originating in the 1970s; an aggressive and violent young man or boy

33. My computer has been acting _____ recently.

- adj.* extraordinary, unexpected, or difficult to explain

34. She _____ denounced the government's mishandling of the economic crisis.

- adv.* in a manner accessible to or observable by the public; by the government

ANSWERS: 27. exploded, 28. instrument, 29. incredibly, 30. monster, 31. breath, 32. punks, 33. weird, 34. publicly

35. Let me quickly _____ these results.

v. to repeat or summarize what has been said, decided, etc.

36. The patient was moved to the intensive care _____ for further treatment.

n. a room in a hospital for patients requiring special care

37. We had a _____ time yesterday.

adj. very great in degree or extent or amount or impact; extremely good

38. Human beings have a _____ lifespan, so we yearn for the idea of immortality.

adj. having a limit or restriction of size, time, etc.

39. I was able to _____ the moment on film.

v. to catch a person or an animal and confine them in an area which they cannot escape

40. Her concept is highly _____ and helpful.

adj. of or connected with actual use or real situation rather than with theory and ideas

41. Sensors convert physical phenomena into _____ signals.

adj. processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet

42. Understanding unitary _____ of a normal matrix require considerable mathematical sophistication.

n. a complete change in form, nature, or appearance of someone or something

ANSWERS: 35. recap, 36. ward, 37. tremendous, 38. finite, 39. capture, 40. practical, 41. digital, 42. transformations

43. These gas nebulas are merely newborn galactic _____.
- n.* the most essential or fundamental part of something
44. The teacher attempted to _____ the root cause of our mistake.
- v.* to think about in-depth and evaluate to discover essential features or meaning
45. He _____ back in time to the soccer game.
- v.* to move along very quickly; (noun) the act of rising upward into the air
46. 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
47. He has a flair for _____.
- n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
48. The doctor ordered an _____ to see if there was any damage to the bones.
- n.* a type of electromagnetic radiation that has a wavelength shorter than visible light allowing hidden objects such as bones and organs inside the body to be photographed
49. She had a tattoo just above her _____ button.
- n.* the front part of the body below the chest, containing the stomach and bowels; the rounded or curved part of an object, such as a ship or aircraft
50. 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: 43. cores, 44. analyze, 45. zoomed, 46. ancient, 47. mathematics, 48. X-ray, 49. belly, 50. preserve

51. The recent economic downturn has resulted in _____ layoffs.

adj. enormous amount; very heavy and solid

52. The battle had an _____ impact on the nation.

adj. unlimited or very great; impossible to measure

53. Mozart was a musical _____.

n. someone who has exceptional intellectual ability and originality

54. The entire mountain is covered in _____ rainforest.

adj. containing a large number of people or something with little space between them

55. This facility has the largest astronomical _____ in the country.

n. a device like a tube in shape containing lenses used to magnify and observe distant objects

56. This question has fascinated solar _____ for decades.

n. a physicist who studies astronomy

57. The _____ given to the new government is to improve the economy.

n. an official or authoritative instruction or command; a commission or authority to carry out a particular task

58. I attempted to _____ him, but he ignored me.

v. to make someone aware of potential danger or difficulty, particularly one that may occur in the future

59. The _____ illusion made it appear like the building was floating in midair.

adj. of or relating to or light or the ability to see; (noun) the science of light and vision, and to instruments and techniques used in the study and application of light

ANSWERS: 51. massive, 52. infinite, 53. genius, 54. dense, 55. telescope, 56. astronomers, 57. mandate, 58. warn, 59. optical

60. The camera's _____ controls how much light enters the lens.

n. an opening or hole, especially one that is narrow or slitlike

61. The _____ data showed that the element was composed of multiple spectral lines.

n. an instrument that separates light into its component wavelengths and records the distribution of intensities as a graph, used for chemical analysis or to determine the properties of stars and galaxies

62. Trial and error is an _____ part of education.

adj. indispensable; fundamental

63. Most countries prohibit sexual activity between certain close _____.

adj. considered and evaluated through comparison with something else

64. The ancient people worshiped the _____ deity.

adj. in bodily form; embodied

65. The positive attitude of the supervisor _____ the discussion.

v. to make something full of interest and energy

66. I don't _____ acting in such an important role.

v. to want to do or have something; (noun) something that many people believe but that is false, or that does not exist; imagination or fantasy

67. 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: 60. aperture, 61. spectrograph, 62. essential, 63. relatives, 64. incarnate, 65. animated, 66. fancy, 67. disease

68. The content is _____ and informative for me.

adj. sharply exact or accurate or delimited

69. The recipe calls for four cups of flour _____ one tablespoon.

adj. subtracting or taking away; having a value less than zero

70. That astronomical _____ stands at the top of the mountain.

n. a building designed and equipped to observe the planets, the stars, the weather, etc.

71. The long _____ was filled with people rushing to get to their rooms before the meeting began.

n. a hallway or passageway, especially one connecting rooms or areas within a building or structure

72. She had to _____ the berries to make a jam, but it was worth it for the delicious taste.

v. to crush or flatten something; to press or squeeze something into a soft or shapeless mass

73. The investigation _____ several government agencies and is expected to take several months.

v. to include or affect someone or something as a necessary part of something else

74. The computer's hard _____ was full, so she had to delete some files.

n. a flat, circular plate, typically made of metal, glass, or plastic, used for storing data or playing music

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

ANSWERS: 68. precise, 69. minus, 70. observatory, 71. corridor, 72. smoosh, 73. involves, 74. disk, 75. planet

76. The _____ village was located near a river.

adj. (also called New Stone Age) the period of human history that followed the end of the last ice age and that is characterized by the development of agriculture and the use of polished stone tools

77. The era of the industrial revolution was a crucial _____ of history.

n. any stage in a series of events, change, or development

78. Many multinational companies are _____ in the reconstruction of that country.

v. to attract and keep someone's attention and interest; to participate in or obtain services of something

79. The poem depicts the heroics of a legendary _____.

n. a person who engaged in or experienced warfare, especially in the past

80. The magic tricks _____ the children.

v. to attract and hold the attention of someone deeply and irresistibly

81. _____ design has become more focused on human nature aspect than ever before.

adj. of or relating to or resulting from industry

82. The intricate _____ on the wooden box was the work of a master craftsman.

n. the act or process of cutting or shaping a hard material, such as wood or stone, into a specific form or design

83. He studied the _____ of radiation.

n. the science of matter and energy and their interactions

ANSWERS: 76. neolithic, 77. phase, 78. engaged, 79. warrior, 80. fascinated, 81. Industrial, 82. carving, 83. physics

84. The photographer adjusted the camera to focus on the image's _____ point.

adj. relating to an important or central point or area; sharp or precise in focus or detail

85. The third _____ was far more successful.

n. an act or effort of trying to do something, especially something difficult

86. The _____ thunders echoed across the plain.

adj. severe and violent in a way that is frightening

87. 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

88. Humankind took centuries to _____ true democracy.

v. to finish or achieve something successfully

89. The wallpaper had a pattern of pink _____ on a white surface.

n. a very small circular mark, especially one that is printed

90. This bronze sword is a _____ of ancient times.

n. an object from a previous era, especially one of historical value

91. The surgeon removed the tumor using _____ video assistance.

adj. of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots

92. The penny fell _____ the piano.

adv. under or below something else

ANSWERS: 84. focal, 85. attempt, 86. fierce, 87. shepherd's, 88. accomplish, 89. dots, 90. relic, 91. robotic, 92. underneath

93. Large earthquakes often generate _____ tsunamis.

adj. very frightening or intimidating

94. All the supervisor has to do is assign tasks that make his subordinates more _____.

adj. relating to or involving the use of skill and original and unusual ideas to create something

95. I love having a loyal and supportive _____ like her in my life.

n. a term of endearment used to describe one's closest friend, a term that connotes a deep and unbreakable bond between the two friends

96. The _____ digs through the sand to a significant depth.

n. a marine mollusk that burrows and lives on sand or mud, the shell closes with viselike firmness

97. The _____ heat made it difficult to sleep.

adj. not easing or slackening in intensity; persistent and unwavering in pursuit of a goal

98. The majority of students actively _____ in the college's intramural sports program.

v. to take part in something

99. The _____ of audit formally issued a business improvement order.

n. a group of large machines or the components of a machine that make it work; social institution functions or structure for doing something

100. Can you _____ 123321 by eleven?

v. to separate or cause to separate into parts or groups

ANSWERS: 93. terrifying, 94. creative, 95. bestie, 96. clam, 97. unrelenting, 98. participated, 99. machinery, 100. divide

101. The deep sea _____ was unlike anything the scientists had ever seen before.

n. a living being, especially an animal

102. The _____ is about 13.8 billion years old.

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

103. An executive _____ director administers each branch.

n. someone who helps or supports someone else to do a job

104. I need to _____ plans with him for the celebration.

v. to plan, prepare for, and carry out something

105. The _____ on the wall showed that the room was three meters long.

n. a device used to measure the amount of a particular substance or attribute, such as length, volume, or time; (prosody) the accent in a metrical foot of verse

106. The _____ of the building was cracked and needed to be repaired.

n. the lowest load-bearing part of a building, typically below ground level; a fundamental basis or principle upon which something is built or established; an organization that provides funding or support for charitable or educational purposes

107. 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

108. The ivory poacher was arrested for possession of illegal _____.

n. a long, pointed tooth, usually found in animals such as elephants, walruses, or wild boars, which protrudes from the mouth and is used as a weapon or for digging

ANSWERS: 101. creature, 102. universe, 103. assistant, 104. arrange, 105. meter, 106. foundation, 107. discovery, 108. tusks

109. X-rays revealed a small tumor in his _____.

- n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling

110. He narrated the _____ story of his adventure.

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

111. He accumulated wealth across a _____ spectrum of assets.

- adj.* very wide; general

112. 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

113. The truth was more _____ than expected.

- adj.* very strange or unusual

114. The police officer _____ the suspect through the crowded streets until they finally caught him.

- v.* to pursue something or someone to catch or capture them; to go after something vigorously or with determination; (noun) a pursuit or a hunt; a narrow groove or channel cut into a surface, often used for decorative purposes

115. The _____ of the katana itself is still in excellent condition.

- n.* the flat part of a knife, weapon, or machine with a very thin edge used for cutting

116. He swung the axe with all his might to _____ the wood in half.

- v.* to split or divide something into two parts, often with force; to adhere or cling to something closely and cohesively

ANSWERS: 109. brain, 110. extraordinary, 111. broad, 112. process, 113. bizarre, 114. chased, 115. blade, 116. cleave

117. Any theorem relies on both _____ fact and assumption.

adj. that can be noticed or seen

118. That _____ shows that people are accepting the tax increase to some extent.

n. an investigation of the opinions, behavior, etc. of a particular group of people, made by asking people questions

119. After the party, they had to clean up _____ of dirty dishes.

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

120. The _____ dog barked and growled at anyone who came near its territory.

adj. having or showing a desire to cause harm to others; having the nature of vice

121. People across the country gathered to watch the solar _____ in wonder and amazement.

n. an obscuring of one celestial body by another, often used to describe a lunar or solar eclipse; a period of obscurity or decline, often used to describe a decline in popularity or influence; (verb) to surpass, overshadow, or outshine someone or something

122. This evidence supports the big-bang _____.

n. a proposed idea or explanation that is based on a few known facts but has not yet been proven to be true or accurate

123. Maximum heart rates _____ a lot for each individual.

v. to become different in terms of size, shape, etc.

124. I've been thinking all day and getting _____.

adv. not in, at, or to any place; not anywhere

ANSWERS: 117. observable, 118. survey, 119. piles, 120. vicious, 121. eclipse, 122. hypothesis, 123. vary, 124. nowhere

125. _____ rays are high-energy particles that originate from outside the solar system.

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

126. Tourists frequently _____ the island's delicate natural balance.

v. to interrupt someone who is trying to work, sleep, etc.

127. After the earthquake, the city was left in a pile of _____.

n. fragments of rock, stone, or other materials that remain after a building or other structure has been destroyed or demolished; the remains of something that has been broken down or destroyed

ANSWERS: 125. Cosmic, 126. disturb, 127. rubble