

Read Naturally®
Encore
Masters Edition

Story 8
Pages 26-40

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Glossary
Sequenced Level
4.5

Read Naturally created this glossary as a reference book for use with Read Naturally Encore level 4.5. The definitions provided correspond to the words as they are used in the stories in this level. It is not a general dictionary.



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Glossary

Read Naturally Level 4.5

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Loch Ness Monster

¹⁶ **certain**

Certain means sure or positive. *She was certain it was going to rain, so she brought her umbrella.*

¹¹ **claimed**

Claimed means said something as if it were true. *The boy claimed that he had done his chores, but his mom could tell by his unmade bed that he hadn't.*

²¹ **depths**

Depths are very deep places or parts.

¹² **disturbance**

A disturbance is something that interrupts quiet, calmness, or order. *The fight between the two boys caused a huge disturbance in the school hallway.*

²² **equipment**

Equipment is the things you need for a certain activity. *They bought equipment so they could go mountain climbing.*

¹⁵ **exist**

Exist means to be real or alive. *Flowers exist in nature.*

²³ **lurks**

Lurks means stays hidden or waits quietly, usually out of sight from others. *The spy lurks in the shadows so that he can listen to conversations without being seen.*

¹³ **photograph**

A photograph is a picture taken with a camera.



²⁰ **proof**

Proof is anything that can be used to show something is true. *The chocolate on your lips is proof you ate the candy bar.*

¹⁷ **reports**

Reports are things that describe what happened, such as news articles and stories on TV. *The sports magazine had many reports on the big race.*

¹⁹ **scientific**

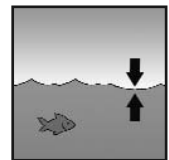
Scientific means careful, organized, and able to be measured. *The girl did a scientific study; she carefully measured the temperature on every day of the year.*

¹⁸ **sightings**

Sightings are events in which someone sees something important or unusual. *Our neighbors reported several sightings of a mountain lion.*

¹⁴ **surface**

A surface is the outside or top part of something. *A boat sails on the surface of the water, and a fish swims below the surface.*



Seeing the Super Small

³⁰ **attend**

Attend means to go to or be present at something. *Jessica wanted to attend her sister's piano recital.*

²⁶ **bacteria**

Bacteria are living things that can be helpful or harmful to our health. Bacteria are so small that you cannot see them without a microscope. *Harmful bacteria can cause an ear infection.*

²⁵ **cells**

Cells are the small parts that make up all plants and animals. *Your blood is made of blood cells, and your brain is made of brain cells.*

³⁷ **doubted**

Doubted means thought that something might not be true or right. *David said he finished reading the book, but Chris doubted it because David didn't know how the story ended.*

²⁷ **endanger**

Endanger means to put in danger or make it possible to hurt or harm someone. *Smoke and other kinds of air pollution endanger our health.*

³⁹ **existed**

Existed means was real or was alive. *Beetles have existed for millions of years.*

²⁸ **fabric**

Fabric is cloth. It can be used to make clothes, curtains, and other goods. *To make a winter coat, Marcie cut out and sewed some thick fabric.*

³⁸ **findings**

Findings are understandings or decisions that people reach after studying something. *After studying the plane crash, the group reported its findings that one of the engines had failed.*

³² **hobby**

A hobby is an activity that a person likes to do in his or her free time.

³³ **lenses**

Lenses are curved pieces of glass that make things look bigger, smaller, or clearer. *Glasses are lenses some people wear to help them see.*



²⁹ **living**

A living is what a person does to make enough money to buy the things needed to live. *Paula sells shoes for a living; this job gives her enough money to buy food and pay her bills.*

³⁴ **magnify**

Magnify means to make things look larger than they really are. *Grandma wears reading glasses to magnify the small print in the book.*

²⁴ **microscope**

A microscope is an instrument that makes small things look larger.



³⁵ **objects**

Objects are things you can see or touch. *Dishes, toys, and shirts are all objects.*

⁴⁰ **roles**

Roles are jobs that people or things have. *Doctors play important roles in keeping us healthy.*

³⁶ **saliva**

Saliva is the watery liquid made by glands in the mouth.

³¹ **scientific**

Scientific means having to do with the study of nature and the way that things are in the universe. *In school, we learned about many scientific things, including the human body, the way plants grow, and different kinds of animals.*

Eruption of Destruction

²² active

If something is active, it is working. *Smoke sometimes comes out of active volcanoes.*

²⁴ adventurous

Adventurous means daring, or willing to take risks in looking for new experiences. *Jill was an adventurous diver; she loved exploring underwater caves and seeing unfamiliar sea creatures.*

¹⁷ casualty

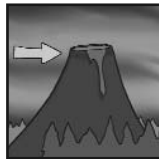
A casualty is someone or something harmed or killed in a war or accident. *The building burned down in the fire, but there was not a single casualty; everyone got out safe and without injury.*

¹⁶ collapsed

Collapsed means toppled over or fell down suddenly. *She collapsed when the baseball hit her leg.*

²⁰ cone

A cone is something with a shape that is wide and round at one end and pointed at the other end. The top of a volcano is sometimes called a cone. *A fir tree is shaped like a cone; so is a wizard's hat.*



¹⁵ disaster

A disaster is a terrible event that causes harm. *The fire that destroyed the city was a disaster.*

²¹ emerged

Emerged means came out of somewhere or came into existence. *The newborn chick emerged from its egg.*

¹² eruptions

Eruptions are explosions in which fire, smoke, or liquid shoots out of something. *Eruptions from volcanoes shoot lava into the air; eruptions from geysers shoot water into the air.*



²³ in spite of

In spite of means even though something happened or is true. *In spite of losing its first game, the football team went on to win the championship.*

¹³ ironically

Ironically means that something is the opposite of what is expected. *Jack thought the remote control would make watching TV simpler, but ironically, it seemed to make it more complicated.*

¹⁹ populated

If a place is populated, people live there. *New York City is heavily populated; millions of people live there.*

¹⁸ tsunamis

Tsunamis are very large ocean waves caused by an underwater earthquake or volcanic eruption. *Two tsunamis came, one after the other, and completely flooded the island.*



¹⁴ uninhabited

If a place is uninhabited, no people live there. *Most of the land around the South Pole is uninhabited because it is too cold for people to live there.*

¹¹ volcanic

Volcanic means related to volcanoes, which are openings in the earth that shoot out lava, ash, and steam. *I have a piece of volcanic rock that I found at the foot of a volcano.*

³³ **advanced**

Advanced means more complicated or more difficult than other things. *Ruth is in an advanced math class; her class is harder than the one that most other students are in.*

³⁷ **astronaut**

An astronaut is a person who travels in space. *The astronaut went to the moon.*



²⁷ **aviation**

Aviation is the science of airplanes and other aircraft.

²⁸ **complex**

Complex means hard to understand or having many parts. *When I took apart the watch and saw all the parts, I knew it was too complex for me to fix.*

³⁰ **enlisted**

Enlisted means joined a group, usually the military. *Kate wanted to serve her country, so she enlisted in the Air Force.*

³⁴ **flights**

Flights are trips through the air made by birds, airplanes, or other things that fly. *The pilot took many flights in his airplane.*

³⁸ **lunar**

Lunar means having to do with the moon. *He put the lunar rocks in his science fair display about the moon.*

⁴² **mankind**

Mankind means all men and women.

²⁹ **model airplanes**

Model airplanes are small copies of planes. *The model airplanes were very detailed; we could even see tiny people through the windows.*



⁴⁰ **momentous**

Momentous means very important or having a big effect on the things that come after. *July 4, 1776, was a momentous day in the history of the United States; on that day, the country declared its independence.*

³⁵ **NASA**

NASA is a government group in charge of space research and space travel. NASA stands for National Aeronautics and Space Administration. *NASA sent astronauts to the moon.*

³¹ **Navy**

The Navy is part of the United States military. *The U.S. Navy helped win World War II.*

²⁵ **ordinary**

Ordinary means plain or normal. *I wanted an ordinary cake without any decoration on it.*

²⁶ **passion**

A passion is a strong feeling of excitement about something. *Michelle has a passion for reading; she spends her free time with books.*

³⁶ **selected**

Selected means chose or picked something. *Jenny tried on many pairs of shoes before she selected the ones that fit best.*

³⁹ **surface**

A surface is the outside or top part of something. *A boat sails on the surface of the water, and a fish swims below the surface.*

³² **test pilot**

A test pilot is a person who flies new kinds of planes to make sure they work correctly.

⁴¹ **went down in history**

Went down in history means was remembered for a long time. *George Washington went down in history as the first President of the United States.*

²³ **achieved**

Achieved means completed, won, or made real. *After she sold the last shirt, she had achieved her goal of selling all the shirts.*

¹⁴ **adventure**

An adventure is a new or exciting experience that a person has. *I had a fun adventure this weekend: I went skydiving!*

¹² **aviator**

An aviator is a person who flies airplanes, helicopters, or other machines that fly. *The aviator flew a plane from New York to Los Angeles.*

²⁷ **bearings**

Bearings are a person's sense of his or her own position. *Dad lost his bearings after he made a wrong turn.*

¹¹ **competent**

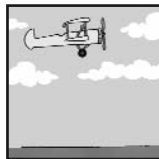
Competent means having the skill or ability to do a certain task. *She is a competent student, so she gets good grades.*

²⁵ **fatal**

Fatal means causing death. *Two people died in the fatal car crash.*

¹⁶ **flight**

A flight is a trip through the air made by a bird or an airplane. *The boy took his first flight on a large airplane.*



¹⁷ **hooked**

When people are hooked on something, they like it very much. *You could tell she was hooked on skating because she skated every day.*

¹³ **independent**

Independent means making decisions for oneself or not under the rule or power of someone or something else. *Now that Tara is 18 years old, she is independent; she doesn't live with her parents anymore, and she makes her own decisions.*

²⁰ **international**

International means in many countries. *The earthquake became international news; people all over the world heard about it.*

¹⁹ **journey**

A journey is a long trip. *My journey from New York to California was about 3,000 miles and took 4 days of driving.*

²⁶ **leg**

A leg is a part of a trip. *The first leg of the trip was fun, but the last leg was ruined by rain.*

¹⁸ **obtain**

Obtain means to get something, usually through effort. *Before they can build the store, they must obtain permission from the city.*

²² **pilot**

Pilot means to fly a plane. *My uncle knows how to pilot a plane, and he said he would give me a ride someday.*

²¹ **satisfied**

Satisfied means happy or pleased with the way things are. *Colin studied hard for his math test, so he felt satisfied when he passed.*

²⁴ **solo**

Solo means alone or by oneself. *None of my friends can go to the park with me, so I will go solo.*

¹⁵ **trial**

Trial means as a test or to try out. *The golf team played a trial round before the real tournament.*

A Marathon of Hope

⁴⁰ **abandon**

Abandon means to leave someone or something or to completely give up. *If it starts raining, we will abandon our picnic and go inside.*

³³ **amputated**

Amputated means cut off a body part, usually by a doctor.

³⁰ **cancer**

Cancer is a disease that can cause people to get very sick or die.

⁴¹ **cause**

A cause is an idea, goal, or principle that a person or group works for. *Shira works at and gives money to a food shelf because she thinks feeding hungry people is a good cause.*

³⁸ **determination**

Determination is strength and willingness to finish something even when it is difficult. *It takes determination to climb to the top of a steep mountain.*

²⁹ **donations**

Donations are money, food, or gifts you give to help a person or group. *We brought donations of rice and noodles to the food shelf.*

³⁵ **dwell**

Dwell means to spend a lot of time thinking about something or to pay a lot of attention to something. *Diana should not dwell on her mistake; she should just try to do better next time.*

³² **incredible**

Incredible means hard to believe or amazing. *Kofi's incredible strength helped him set the weightlifting record.*

³⁹ **inspired**

Inspired means made others want to do something or try for something. *The good coach inspired players to do their best.*

²⁸ **marathon**

A marathon is a race in which people run about 26.2 miles. *He entered the marathon because he can run for a long time without getting tired.*

³⁶ **misfortune**

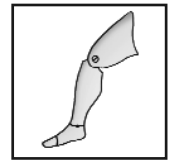
A misfortune is something bad or unlucky that happens. *The man had the misfortune of losing his dog in the woods.*

⁴² **organized**

Organized means put together or arranged. *Jack organized the party; he set the date, invited the guests, planned the activities, and bought the cake.*

³⁴ **prosthetic leg**

A prosthetic leg is an artificial leg used to replace a leg that is missing. Many prosthetic legs are made of plastic or other sturdy materials.



³⁷ **recovered**

Recovered means got better after an illness or accident.

³¹ **research**

Research is careful investigation or study to learn new facts about something. *The scientists took many measurements and carefully looked at the information they had collected; this research helped them figure out when the volcano would erupt again.*

What Big Eyes You Have!

²³ **ability**

Ability is the power to do something. *Wings and feathers give birds the ability to fly.*

¹⁹ **affect**

Affect means to cause a change in a person or thing. *The rain will affect our day; it will make us stay inside.*

²⁵ **consumes**

Consumes means eats or drinks. *A horse consumes hay, and a bird consumes worms.*

¹² **expression**

An expression is a well-known group of words that means something specific. *Pulling somebody's leg is an expression that means teasing or fooling someone.*

²⁴ **locate**

Locate means to find out where something is. *Shirley was able to locate her town on the state map.*

¹⁷ **nocturnal**

Animals that are nocturnal are active at night and asleep during the day. *Bats, owls, and raccoons are all nocturnal animals.*

¹¹ **normally**

Normally means usually or regularly. *I normally visit my grandfather every Tuesday, but this week I have to go on Wednesday.*

¹⁴ **palm**

The palm is the flat, inner part of the hand, not including the fingers. *Chuck looked at the coin in the palm of his hand and then closed his hand in a fist around it.*



¹³ **petite**

Petite means small or tiny. *A mouse looks like a petite rat; it looks like a rat, but smaller.*

²¹ **position**

A position is a place where a person or thing is. *Dad moved his chair to a new position so that he could see the TV better.*

¹⁵ **relies**

Relies means depends on or needs. *The fish relies on its gills; it can't breathe without them.*

²² **rotate**

Rotate means to turn or spin something around a center point. *You can rotate a globe around its rod or axis to see the globe's different sides.*

²⁰ **sockets**

Sockets are pocket-like holes in a body; a socket is made to fit around another body part. *A person's hip joints connect to the thigh bones using sockets; a round, knob-like part on the end of the thigh bone fits into the hip socket.*

¹⁸ **sufficient**

Sufficient means enough or as much as needed. *Start early so you have sufficient time to get your work done.*

¹⁶ **vision**

Vision is the ability to see, or the sense of sight. *Bill has bad vision without his eyeglasses.*

The San Francisco Earthquake

³⁷ **absorb**

Absorb means to take in or gather something, such as energy. *A helmet can absorb the shock of a bike crash; the energy goes to your helmet instead of your head.*

²⁶ **earthquake**

An earthquake is a strong, sudden shaking of the earth's crust caused by volcanic forces or shifting rock.

⁴⁰ **engineers**

Engineers are people who are skilled at planning and designing things such as bridges, buildings, or electronic devices.

³⁶ **estimates**

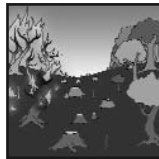
Estimates are guesses about number or size that are made after careful thinking. *The class made estimates about how many jellybeans were in the jar.*

³¹ **explosives**

Explosives are things that are meant to blow up or burst with a lot of force. *The workers used explosives to destroy the old building.*

³⁰ **firebreaks**

Firebreaks are sections of land that are cleared to stop the spread of a fire. *The firefighters cut down trees to make firebreaks in the burning forest.*



²⁹ **fueled**

Fueled means caused to spread. *He fueled the fire with dry logs.*

²⁸ **lines**

Lines are connected groups of pipes or tubes that carry something from one place to another. *The sewer lines are below the city's streets, and they go all over town.*

³³ **loot**

Loot means to steal, rob, or carry away something that doesn't belong to you. *After the earthquake, many stores had broken windows and fallen walls, making it easy for people to get in and loot things from the stores.*

³² **mayor**

The mayor is the person elected to be the leader of the government of a town or city.

³⁵ **resulting**

Resulting means happening because of something else. *The small fire didn't cause much damage to the house, but the resulting smoke caused a lot of damage.*

³⁴ **rubble**

Rubble is broken pieces of rock, stone, or brick. *The explosion turned the building into a pile of rubble.*

²⁷ **streetcar**

A streetcar is a vehicle that carries people and moves on tracks in city streets.



³⁹ **sway**

Sway means to move back and forth slowly. *The tree's leaves sway in the wind.*

³⁸ **vibrations**

Vibrations are quick movements back and forth. *We could feel the vibrations from the earthquake.*



¹⁷ **accumulated**

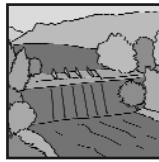
Accumulated means gathered over a period of time. *I didn't clean my room for a month, so lots of dust accumulated on my desk.*

¹⁹ **burst**

Burst means to explode or come open. *If I step on the tube of toothpaste, it will burst, sending toothpaste everywhere.*

¹¹ **dam**

A dam is a wall that is built in order to stop or control the flow of water. *People wanted to create a lake, so they built a dam across the river and stopped its flow.*



²¹ **debris**

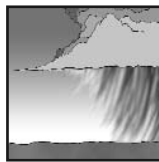
Debris is what is left after something has been destroyed or damaged. *The men cleaned up the debris after the big storm.*

¹² **definitely**

Definitely means for sure. *Eating toast and fruit for breakfast is definitely healthier than eating a doughnut.*

¹⁵ **downpour**

A downpour is a heavy fall of rain. *The flash flood was caused by the downpour.*



¹⁶ **drenched**

Drenched means made completely wet. *I forgot my umbrella, so the rain drenched me.*

¹³ **earthen**

Earthen means made of dirt or clay. *The huts have earthen walls; people formed them out of clay.*

²⁴ **ignited**

Ignited means lit or started on fire. *After many weeks without rain, the trees ignited easily, helping the forest fire to spread.*

¹⁴ **intact**

Intact means in one piece or not broken. *The dishes arrived intact even though they were shipped 10,000 miles.*

²² **massive**

Massive means very big or huge. *We needed a bulldozer to move the massive rock.*

¹⁸ **pressure**

Pressure is force or weight that is put on something. *When I studied outside, I put a heavy book on my papers so the pressure would keep them from flying away in the wind.*

²⁵ **resulting**

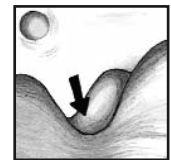
Resulting means happening because of something else. *The small fire didn't cause much damage to the house, but the resulting smoke caused a lot of damage.*

²³ **towering**

Towering means much taller than nearby things. *The towering building has 100 floors; it is much taller than all of the other buildings in the city.*

²⁰ **valley**

A valley is the low land between hills or mountains.



Underground Workers

⁴¹ **absorb**

Absorb means to take in another substance. *A sponge can absorb water.*

²⁸ **acre**

An acre is a large area of land. One acre is 43,560 square feet. *Ted planted one acre of his land with grass for a yard, and the rest was planted with corn.*

³⁴ **deposit**

Deposit means to leave or set down. *I used a truck to carry a load of rocks from the garden store and deposit it near my garden.*

⁴⁰ **digestive systems**

Digestive systems are groups of body parts that change food so that bodies can use it. *Stomachs and intestines are parts of digestive systems in humans.*

²⁷ **improve**

Improve means to make something better. *Sue studied her addition and subtraction facts to improve her math grade.*

³⁶ **minerals**

Minerals are natural substances like iron, coal, and salt that are found in the ground. *Iron ore and coal are minerals that help humans live more comfortably.*

³⁹ **nutrients**

Nutrients are things that help other things grow by acting as food. *The nutrients found in food help your body to grow.*

²⁹ **perform**

Perform means do or carry out a task. *The doctor has to perform surgery to fix my brother's broken leg.*

³⁸ **plant matter**

Plant matter is any material, such as a leaf, petal, or bark, that makes up a plant. *When we cleaned up the yard, we threw away all the dead plant matter.*

³¹ **plows**

Plows are machines that farmers use to turn up soil to get it ready for planting. *The farmers used plows to make their fields ready for planting corn.*



³⁵ **process**

A process is a series of steps in doing something. *Washing, drying, and folding clothes are all parts of Mom's laundry process.*

³⁷ **recycle**

Recycle means to get the useful parts out of something so that they can be used again. *When we recycle, we separate metal, paper, glass, and plastic from our trash because these materials can be reused in new products.*

²⁶ **soil**

Soil is dirt in which plants grow. *Mom put rich soil into the pot when she planted the fern.*

³² **topsoil**

Topsoil is the surface, or top, layer of soil.

³³ **tunnel**

Tunnel means to dig a path that goes under or through something. *When building the highway, they decided to tunnel through the mountain instead of building over or around it.*

³⁰ **tunnels**

Tunnels are paths that go under the ground. *Sometimes people cut tunnels through a mountain so that cars can drive under the mountain instead of going over it.*



¹¹ according to

According to means as said or believed by someone or something. *According to the police officer, my friend caused the car accident.*

²⁴ barbecue

Barbecue is a kind of sauce that has a spicy, smoky flavor.

¹⁷ crispy

Crispy means hard and dry, but easy to break. *The dry leaves are crispy; they break into small pieces when I walk on them.*

¹⁴ crunchy

Crunchy means making a sound when chewed or broken into smaller pieces. *Carrots are crunchy, but oatmeal is not.*

¹³ customer

A customer is a person who buys something. *The customer bought a bag of groceries.*



²³ flavored

Flavored means given a certain taste. *Some candy is flavored like cherries, and some is flavored like strawberries.*

¹⁸ instead

Instead means in place of something or rather than something else. *The restaurant was closed, so we ate dinner at home instead.*

¹⁶ irritable

Irritable means easy to make angry. *My uncle is irritable; if you say anything he disagrees with, he will get angry.*

¹⁵ lesson

To teach someone a lesson means to make someone not want to do something unwise or bad again. *Dad wanted to teach me a lesson after I didn't clean my room, so he took away my bike for a week.*

²⁰ originated

Originated means started or came to be. *My tradition of planting a tree on my birthday originated when I turned 7, and I have been doing it every year since then.*

¹² popular

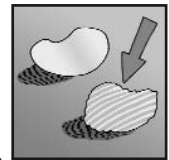
Popular means liked by many people. *Many people chose to see the popular movie.*

¹⁹ requesting

Requesting means asking for something. *After requesting another glass of water, she waited patiently for it to arrive.*

²² rippled

When something is rippled, it has an uneven, wavy surface. *The lake has a flat surface on a calm day, but it has a rippled surface on a windy day.*



²¹ selection

A selection is the things you can choose from. *The store near my house has a small selection of magazines; there are only three to choose from.*

³⁸ **applauded**

Applauded means clapped hands together to show something is well done or liked. *The crowd loved the song, so they applauded after the band finished playing it.*

³⁷ **audience**

An audience is the group of people listening to or watching a show or performance. *My parents were part of the audience that came to see our class play.*

²⁷ **composed**

Composed means created a musical work. *Steve composed his own song by writing a piano part, a guitar part, and lyrics.*

²⁶ **composers**

Composers are people who write music.

³⁹ **concluded**

Concluded means ended or finished. *After the game concluded, we got ice cream to celebrate our win.*

²⁵ **considered**

Considered means thought to be. *Leslie considered Maggie to be her best friend.*

³³ **determined**

Determined means having strength and willingness to do something even when it is difficult. *He was determined to climb to the top of a steep mountain.*

³² **devastated**

Devastated means made someone feel extremely upset. *Losing his dog devastated Gary.*

³¹ **gradually**

Gradually means happening slowly over time. *Babies gradually learn to walk and talk.*

⁴⁰ **masterpieces**

Masterpieces are the best works of a talented artist or musician. *Many of the famous artist's masterpieces are hanging in museums.*

³⁵ **performance**

A performance is a presentation or a show.

³⁰ **pianist**

A pianist is a person who plays the piano.



²⁹ **prominent**

Prominent means important or well-known. *When the mayor visited our school, everyone was excited to have such a prominent person in the building.*

²⁸ **remarkable**

Remarkable means worth noticing, extraordinary, or unusually good. *Our baseball team had a remarkable season; we won every game, and none of our players got hurt.*

³⁴ **symphony**

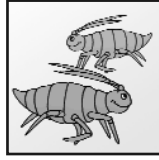
A symphony is a long piece of music written for an orchestra to play.

³⁶ **triumph**

A triumph is a success or win. *Learning how to walk again after his accident was a great triumph for Stu.*

¹⁶ aphids

Aphids are small bugs that drink the juice from plants.



²² appearance

Appearance is the way someone or something looks. *She is always combing her hair because she cares about her appearance.*

²⁶ associate

Associate means to make a connection in the mind between things. *Many people associate pumpkins with Halloween.*

²⁰ attractive

Attractive means interesting or able to make others want to come closer. *The attractive new display will bring many visitors to the museum.*

¹⁸ consume

Consume means to eat or drink. *Horses consume hay, and many birds consume worms.*

²¹ deceived

Deceived means fooled, tricked, or made to believe something that isn't true. *Many people were deceived by Jen's costume; they thought she really was a police officer.*

²³ defense

A defense is something a person or animal uses to protect itself. *The people in the city built a wall as a defense against floods.*

¹⁵ emerge

Emerge means to come out of somewhere or come into existence. *The newborn chick will emerge from its egg.*

¹⁹ environment

The environment is the outside and all that lives there. *Rain is good for the environment because it helps plants grow.*

²⁵ foul

Foul means rotten, dirty, or disgusting. *The old apartment had a foul smell that made us want to leave immediately.*

¹⁴ hibernating

Hibernating means sleeping during the winter months. *Bears are hibernating in the caves until spring.*

¹³ huddle

Huddle means stay close together. *The baby rabbits huddle together to stay warm.*

¹² protected

Protected means safe from danger.

¹¹ rather

Rather means more correctly, or more properly. *The earthquake didn't destroy the building; rather, the earthquake caused a fire that destroyed the building.*

²⁴ secrete

Secrete means to make and then let out. *Your body will secrete sweat when you exercise hard.*

¹⁷ type

Type means kind. *My favorite type of ice cream is chocolate.*

Chewing on Trees?

³³ **ancient**

Ancient means from a very long time ago. *He found an ancient coin; it was over 2,000 years old.*

³⁴ **chicle**

Chicle is the thickened, milky sap of certain tropical American trees.

³⁶ **demand**

Demand is how much of something people want. *There was a lot of demand for ice cream on the hot summer day.*

⁴⁰ **elastic**

If something is elastic, it is able to be stretched out and then returned to its original shape. *A rubber band is elastic; you can stretch it to fit around something much bigger than itself.*

³⁷ **eventually**

Eventually means after a long time. *I looked everywhere for my eyeglasses, and eventually I found them on my head.*

³⁹ **factory**

A factory is a place where things are made. *At the car factory, you can see all the parts that are used to make cars.*



²⁹ **gum base**

Gum base is a stretchy substance like rubber. It does not dissolve in water, can't be digested, and has no nutritional value.

³¹ **harvested**

Harvested means gathered, picked, or collected. *This apple cider is made from apples harvested at our neighbor's farm.*

²⁸ **ingredient**

An ingredient is one of the things a mixture is made of. *Chocolate chips are an important ingredient in chocolate chip cookies.*

²⁷ **major**

Major means a main part of something, or greater in size or importance than other parts. *A major amount of his time was spent on math homework because he wanted to get a better math grade.*

³⁵ **sap**

Sap is thick, sticky liquid that comes from plants and trees. *Real maple syrup is made from the sap of a maple tree.*

³⁰ **substances**

Substances are solids or liquids you can touch. *Jeff would not go in the lake because of the green and brown substances floating in it.*

³⁸ **synthetic**

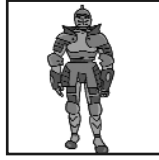
Synthetic means made by people and not found in nature. *Synthetic leather is not made from animal hide; it is made from materials made by people.*

³² **trace**

Trace means to follow the stages of growth or progress of something. *Connor wanted to trace his family's history back to his oldest relatives.*

¹⁸
armor

Armor is a covering made of strong material that protects the body. *A knight's armor is his metal suit.*



²³
decaying

Decaying means being destroyed slowly or rotting. *The decaying leaves turned brown.*

¹⁹
destructive

Destructive means able to destroy or ruin things. *A tornado is a destructive storm because it has winds that are strong enough to pull up trees and blow down houses.*

²²
environment

The environment is the outside and all that lives there. *Rain is good for the environment because it helps plants grow.*

¹³
evolved

Evolved means changed and developed over time, often in a way that made something better. *Our club evolved; after a few years, we had new members and new ways of doing things.*

¹⁷
habitats

Habitats are the places in nature where animals or plants live. *Frogs' habitats include trees and bodies of water.*

¹⁵
moisture

Moisture is little drops of water. *The sweat that forms on your face when you are really hot is moisture.*

²⁶
multiply

Multiply means to reproduce, breed, or make babies. *Mice can multiply very quickly; many baby mice can be born to a mother mouse every few weeks.*

²⁵
pollinate

Pollinate means to move pollen from one flower to another so that the flowers can make seeds. *A bee will pollinate a flower when it carries the pollen from one flower to another flower.*



¹¹
species

Species are groups of plants or animals that are alike in certain ways. *Mammals include many species, such as lions, giraffes, and humans.*

²¹
stalks

Stalks are the main stems of plants or the stems from which the flowers grow. *The toddler tried to grab the flowers by their petals, but his sister showed him how to hold them by their stalks.*

¹⁴
surroundings

Surroundings are the things that are near someone or something. *At school, my surroundings include desks, teachers, and other students.*

¹²
survival

Survival is the continuation of life or existence. *Paul's good hunting skills made his survival in the woods possible because he was able to get enough food to stay alive.*

¹⁶
variety

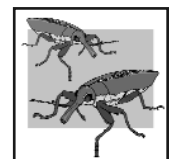
A variety is many different kinds. *There was a variety of fruit in the bowl, including apples, oranges, and bananas.*

²⁴
wastes

Wastes are things that are not useful anymore. *We throw wastes in the garbage.*

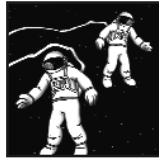
²⁰
weevils

Weevils are a kind of small beetle that often damage crops.



⁴⁰ astronauts

Astronauts are people who travel in space. *The astronauts went to the moon.*



³⁶ attracts

Attracts means causes something to move closer. *The large magnet attracts small pieces of metal.*

²⁷ consider

Consider means to think about or keep in mind. *My mom told me to consider my choices: I could either take piano lessons or join the swim team.*

³⁸ determines

Determines means controls or decides something. *How hard you press on the pedal determines how fast the car will go.*

³⁹ for example

For example are words a person sometimes says just before showing or telling you what something is like. *People sometimes feel sick when they eat too much sweet food; for example, too much cake and ice cream can cause a stomach-ache.*

²⁹ for granted

If you take something for granted, you accept it as true and never question or test it. *I take my watch for granted; I always expect its time to be correct.*

³² force

A force is a power that causes or stops movement. *Gravity is the force that pulls objects to Earth.*

³⁵ gravity

Gravity is a force that pulls objects toward each other. Gravity pulls objects to the ground, such as apples that fall from trees.

⁴¹ intelligent

Intelligent means smart and able to learn and understand things.

³¹ invisible

Invisible means not able to be seen. *Air is invisible; it is there, but you cannot see it.*

³³ maintain

Maintain means to keep something the way it is. *The beams help the ceiling maintain its position; they keep the ceiling from falling.*

³⁷ objects

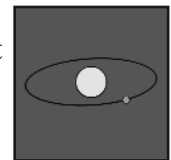
Objects are things you can see or touch. *Dishes, toys, and shirts are all objects.*

²⁸ observed

Observed means watched carefully. *We observed the stars with a telescope.*

³⁴ orbit

An orbit is the path that one object in space takes around another. *Earth's orbit around the sun takes about 365 days to complete.*



³⁰ theorized

Theorized means offered a possible explanation after careful observation and thought. *After the scientist studied all of the information she had gathered, she theorized that the volcano would erupt soon.*

²⁵ **atmosphere**

The atmosphere is the air or gases that surround a planet, moon, or star. *A rocket must pass through Earth's atmosphere before it reaches outer space.*

²⁷ **black dwarf star**

A black dwarf star is a white dwarf star that has cooled off completely and no longer gives off light. It is the end stage of a star's existence.

¹⁵ **consists**

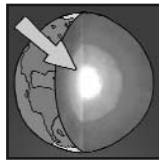
Consists means is made up of. *Sea water consists of salt and water.*

¹¹ **constant**

Constant means unchanging or staying the same. *Mia kept a constant watch on her kids at the park; she didn't let anything distract her from looking at them.*

²¹ **core**

A core is the innermost part of something. *If you could dig down to the center of Earth, you would reach Earth's core.*



¹⁹ **currently**

Currently means right now or in the present. *The student told us he is currently going to Washington High School.*

¹⁸ **elements**

Elements are the basic ingredients that make up everything in the universe.

²⁴ **eventually**

Eventually means after a long time. *I looked everywhere for my eyeglasses, and eventually I found them on my head.*

²² **expand**

Expand means to become wider or bigger. *Balloons expand when you fill them with air.*

¹⁴ **fuel**

Fuel is something that burns to give heat, light, or power. *Gas is fuel for cars.*

¹⁷ **helium**

Helium is a gas that has no color or smell and is lighter than air. *People fill balloons with helium to make the balloons float.*

¹⁶ **hydrogen**

Hydrogen is a gas that has no color or smell and burns easily. *When hydrogen is burned, it combines with oxygen to make water.*

¹² **process**

A process is a series of steps in doing something. *A caterpillar spends some time in a cocoon in the process of becoming a butterfly.*

²³ **red giant star**

A red giant star is a star that has finished burning the fuel in its core and has started burning the fuel in its outer layers. The star's outer layers puff out, and the star becomes much larger.

¹³ **survival**

Survival is the continuation of life or existence. *Paul's good hunting skills made his survival in the woods possible because he was able to get enough food to stay alive.*

²⁶ **white dwarf star**

A white dwarf star is a star that has burned up all of its fuel but is still hot. A white dwarf star is much smaller than it was when it was a yellow dwarf or red giant, and it is not as bright.

²⁰ **yellow dwarf star**

A yellow dwarf star is a common type of star that is burning the fuel in its core.

³⁵ **attempts**

Attempts are tries or efforts to do something. *She made three attempts at passing the test; she failed her first two tries, but she passed her third.*

⁴⁰ **breed**

Breed means to help animals produce babies. *The trainers breed dogs; they choose which ones they want to have babies.*

³³ **consume**

Consume means to eat or drink. *Horses consume hay, and many birds consume worms.*

³⁰ **darts**

Darts means moves quickly and suddenly. *It is hard to catch a mouse as it darts across the room.*

³⁸ **extinct**

Extinct means no longer existing. *Dinosaurs are extinct.*

³⁶ **frigid**

Frigid means extremely cold. *I had to wear a heavy coat to stay warm in the frigid weather.*

³⁷ **harsh**

Harsh means very unpleasant, uncomfortable, or severe. *The wind was so harsh that it burned my cheeks.*

³⁹ **in the wild**

In the wild means in an area of land where very few people live, and plants and animals live without the help of people. *Some people learn to survive in the wild by learning how to find food and water and how to avoid dangerous animals.*

²⁹ **instant**

An instant is a moment or a very short amount of time.

³¹ **lunges**

Lunges means moves forward suddenly and forcefully.

³² **muscular**

Muscular means very strong. *The man is muscular because he lifts weights every day.*

⁴¹ **preserve**

Preserve means to keep something from being harmed, damaged, or changed.

³⁴ **skilled**

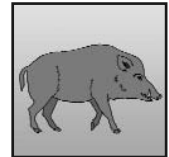
Skilled means good at something. *The skilled piano player could play almost any song well.*

⁴² **stealthy**

Stealthy means able to move without being noticed. *The thief was stealthy; nobody saw him break into the stores he robbed.*

²⁸ **wild boar**

A wild boar is a wild pig that has tusks and dark bristles.



¹⁶
alarm

An alarm is a signal that warns of danger. *When we heard the alarm, we knew a bad storm was coming and we ran inside.*

¹⁸
blaze

A blaze is a fire. *Five buildings were destroyed in the blaze.*



¹³
calamity

A calamity is a terrible event that causes great harm. *The earthquake was a calamity that destroyed many homes.*

¹⁷
control

Control means to make a person or thing do what you want it to. *People with bad tempers should learn to control their tempers.*

²⁴
disasters

Disasters are terrible events that cause harm. *The fires that destroyed the cities of London and Chicago were disasters.*

¹⁹
downtown

Downtown means in a city's main business area. *My dad works downtown in a tall office building.*

²²
fireproof

Fireproof means safe against fire. *We put important papers in a fireproof steel safe.*

²⁰
fortunately

Fortunately means luckily or because of good fortune.

²⁵
in spite of

In spite of means even though something happened or is true. *In spite of losing its first game, the football team went on to win the championship.*

¹¹
industry

An industry is all the businesses that provide related services or products. *People who grow crops, own grocery stores, or own restaurants are part of the food industry.*

¹⁴
noticed

Noticed means saw, observed, or paid attention to something.

²³
preventing

Preventing means keeping something from happening. *The baby's mother put a gate across the top of the stairs as a way of preventing him from falling down the stairs.*

²⁶
remains

Remains means continues to be. *Even after all these years, she remains my best friend.*

²¹
square miles

Square miles are areas one mile long and one mile wide.

¹²
trade

Trade is the buying and selling of goods. *Trade between the United States and Canada includes the United States buying oil and timber from Canada, and Canada buying electronics from the United States.*

¹⁵
watchtower

A watchtower is a tall structure where people stand to view large areas. *People go to the top of a watchtower to look for fires, enemies, or escaped prisoners.*



The Liberty Bell

²⁷ **communicate**

Communicate means to tell or send a message about something. *Smiling can communicate joy.*

³⁶ **Declaration of Independence**

The Declaration of Independence is a document that says America is free from the control of other countries.



²⁸ **events**

Events are things that take place. *Parades are events that often take place on holidays.*

³⁷ **exhibited**

Exhibited means shown in public. *Many beautiful works of art are exhibited in the museum.*

³⁴ **freedom**

Freedom is the right to make your own choices rather than having someone else make them for you.

³¹ **honor**

Honor means to show respect for someone or something. *The people stood to honor the king.*

³⁸ **independence**

Independence is the state of being able to make decisions for oneself. Those who have independence are not under the rule or power of someone or something else. *Mexico was ruled by Spain until the early 1800s, when Mexico gained independence.*

³⁰ **liberty**

Liberty is freedom, or the ability to make your own choices rather than having someone else make them for you. *Mishka had to follow his parents' rules when he lived at home, but he gained his liberty when he moved away to college.*

²⁹ **recast**

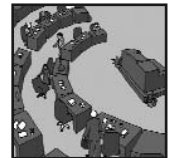
Recast means made again by pouring a liquid into a mold and letting it get hard. *They recast the statue after it broke.*

³² **silent**

Silent means not making any sound. *All the students in the classroom were silent; none of them talked or made any other noises.*

³⁵ **state house**

A state house is a state's main building for government meetings.



³³ **symbol**

A symbol is an object that stands for something other than itself. *A red rose is a symbol of love.*



³⁹ **unity**

Unity is the state of being joined together as one, or working together for one purpose. *The soccer team worked in unity to move the ball to the end of the field; each player did her part to help get the goal.*

¹³**American Revolutionary War**

The American Revolutionary War was a war fought between the American colonies and Great Britain from 1775 to 1783. With the help of other countries and American Indians, the American colonies won the war and became a separate country, free from Great Britain's rule.

¹⁴**British**

A British person is someone from Great Britain.

²⁰**call to arms**

A call to arms is an order to soldiers, saying that they must be present at a certain place for military duty. *When the soldiers heard the call to arms, they knew it was time to go to war.*

¹⁹**carry**

Carry means to take an object or a piece of information from one place to another. *My grandparents haven't heard about my good grades yet, so I will carry the news to them this weekend.*

¹¹**colonel**

A colonel is an officer in the military. *The colonel is in charge of many soldiers.*

¹²**Continental Army**

The Continental Army was the army that fought the British army in the American Revolutionary War.

¹⁸**convey**

Convey means to communicate or make known. *The football fans convey their happiness by cheering when the team scores.*

²¹**encountered**

Encountered means came up against or experienced something bad. *Although the weather report said the skies would be clear, we encountered snow on our road trip.*

¹⁷**exhausted**

Exhausted means very tired. *Jeff was exhausted after climbing the mountain.*

¹⁶**messenger**

A messenger is a person who delivers information. *I wrote a note to Hector and asked Sally to deliver it; Sally was the messenger.*

²²**regiment**

A regiment is a large group of soldiers made up of two or more smaller groups.

²⁴**retreat**

Retreat means to leave a place rather than fight. *The soldiers knew they could not win the battle, so they decided to retreat.*

¹⁵**summon**

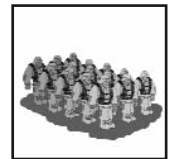
Summon means to call or send for people to come. *I will summon you when I need your help.*

²⁵**to action**

When someone calls people to action, he or she asks people to do a certain thing. *The leader called the volunteers to action; she asked them to go to the park and clean up the litter.*

²³**troops**

Troops are soldiers. *During the war, many troops had to fight in a foreign country.*



³¹ **accept**

Accept means to agree to something or go along with it. *When she saw that it was raining outside, she had to accept the fact that she would have to play indoors.*

²⁷ **chimpanzees**

Chimpanzees are a kind of ape that lives in Africa. They often live in trees.



³³ **community**

A community is a group that shares an area or an interest. *My dad does a lot of work for our community; he plants flowers in the park and coaches a soccer team.*

⁴⁰ **contribution**

A contribution is an effort made or thing given for common good or purpose. *She made a contribution to the school by giving money for new books.*

³⁶ **cruel**

Cruel means unkind and hurtful. *The cruel boy threw rocks at the flock of birds in the park.*

²⁸ **established**

Established means set up or started. *We established our campsite where we pitched our tent.*

³⁴ **eventually**

Eventually means after a long time. *I looked everywhere for my eyeglasses, and eventually I found them on my head.*

²⁶ **fascination**

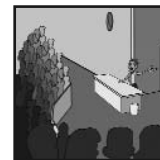
Fascination is an interest or a curiosity to know more about something. *John's fascination with space led him to read many books about it.*

³⁹ **fortunate**

Fortunate means lucky or having good fortune. *Carl was fortunate to have his umbrella with him when it started raining.*

³⁸ **lecturing**

Lecturing means speaking to a group of people in order to give them information about something. *The teacher was lecturing to her class about the Civil War.*



²⁹ **observing**

Observing means watching carefully. *The scientist was observing the star through the telescope.*

³² **presence**

Presence is the fact that a person or thing is in a certain place. *My dad's presence in my room made me feel safer during the storm; I was glad he was there with me.*

³⁷ **published**

Published means prepared and offered for sale something written, such as a book or magazine. *The author published his first book last year.*

³⁵ **realized**

Realized means learned or understood something that you did not know before. *I started to run after I realized I was late.*

⁴¹ **social**

Social means living or moving in groups. *Bees are social animals; they live in hives and work together.*

³⁰ **suspicious**

Suspicious means believing someone is bad or cannot be trusted. *I was suspicious of the men, so I ran away.*

¹³ **abandon**

Abandon means to leave someone or something or to completely give up. *He had to abandon the house after the tornado hit it.*

²² **distances**

Distances are amounts of space between places. *The two students live different distances from school; Sheena lives one block away from school, and Holly lives nine blocks away.*

¹⁷ **endurance**

Endurance is the ability to do something for a long time. *Most people do not have the endurance to run the 26 miles of a marathon race.*

²¹ **extreme**

Extreme means beyond the normal or usual level. *The mountains he skied on were extreme; they were the steepest and most difficult places to ski in the country.*

¹⁵ **focus**

Focus is special attention given to someone or something. *During the winter I keep my focus on school, but during the summer my focus turns to playing outside.*

¹² **infection**

An infection is a sickness caused by germs in part of the body. *My ear hurt because I had an ear infection.*

¹⁸ **key**

A key is something that is important or necessary for doing a certain thing. *The detective said the clue was the key to solving the case; without that information, he could not have discovered who had robbed the bank.*

²³ **limit**

The limit is the point where something must end. *The boy ran to his limit and then fell down on the track.*

¹⁶ **marathon**

Marathon means going a long distance or continuing for a long time. *Before the big test, the students got together for a marathon study session that lasted most of the weekend.*

¹¹ **Olympics**

The Olympics are athletic contests held every four years in which people from different countries compete.

¹⁴ **permanently**

Permanently means lasting for a long time or forever. *I wrote in ink so my name would be in the book permanently.*

²⁰ **record**

A record is the best any person has ever done on something. *The best runner in the world set a record in the Olympics; no one had ever run faster.*

²⁴ **spirit**

Spirit is the will or power within a living thing that makes it alive.

¹⁹ **training**

Training means working the body to get it ready for a sport or contest. *Arjun wanted to build up his arm muscles before the tennis match, so he was training by lifting weights.*

³⁰ assisting

Assisting means helping. *The seeing eye dog is assisting the blind man by leading him safely across the street.*

³⁴ attempted

Attempted means tried. *The good students attempted to finish all their work on time.*

³⁷ compassion

Compassion is a feeling of sympathy for someone that makes you want to help them. *Lisa felt compassion for the thin, hungry-looking dog, so she gave him her lunch.*

²⁶ convent

A convent is a group of people who live together and follow a set of religious rules. *Nuns who join the convent will live with the other nuns for the rest of their lives.*

²⁷ divine calling

A divine calling is a belief by a person that God is telling a them what to do. *Sam had planned to become a banker until he felt a divine calling that he should go into teaching instead.*

⁴⁰ example

An example is a model or pattern that can be copied or followed. *The boy who sat quietly in class was an example of good behavior.*

³⁸ expand

Expand means to increase or get larger in size or amount. *Chen's knowledge of the Spanish language will expand as he studies and learns more about it.*

²⁸ founded

Founded means set up or started for the first time. *The group of teachers founded the new school last year.*

³³ genuinely

Genuinely means truly or really. *The boy genuinely loves his dog.*

²⁵ nun

A nun is a woman who belongs to a group of religious women who often live together.

²⁹ order

An order is a group of people who live together and follow a set of religious rules. *Nuns who join the Order of Saint Francis agree to give away their fancy clothes and belongings and live a simple life of prayer and work.*

³⁶ pity

Pity is a feeling of sorrow for someone who seems worse off than you are. *Mary saw the barefoot children skipping down the street, and she felt pity for them because they didn't have any shoes.*

³⁹ service

Service is work or activities done to help others. *After a group of people cleaned up the city parks, the mayor thanked them for their service to the city.*

³² shelter

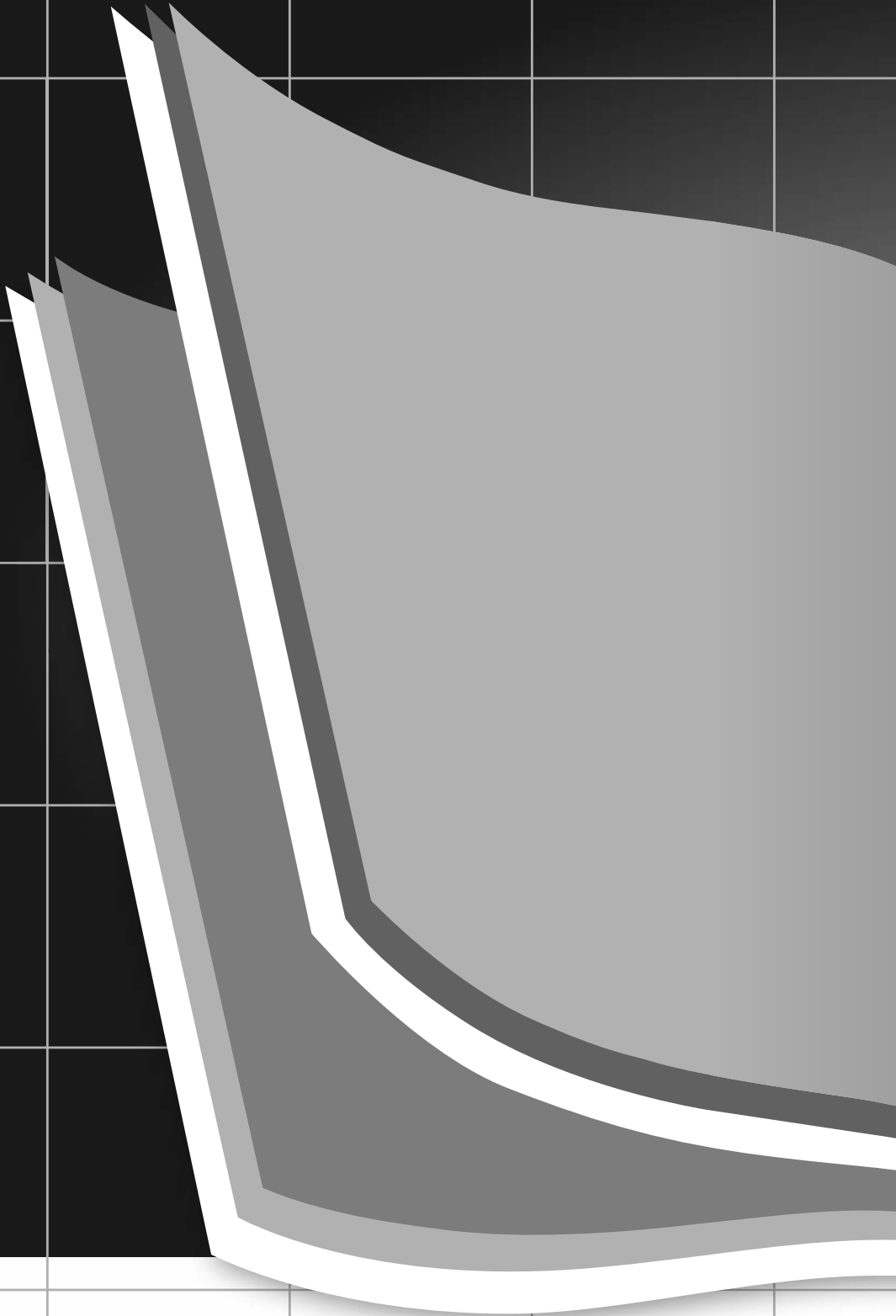
Shelter is a place or thing that offers protection from weather or danger. *A house is a common form of shelter.*

³¹ slums

Slums are areas of a city that are poor, broken down, and crowded. *In the city's slums, people might live in a single room, and many of the buildings might have broken windows and doors.*

³⁵ sympathy

Sympathy is the feeling of sorrow for the sadness of another. *I had sympathy for my friend when his dog died; I could understand his sadness.*



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