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## Unit 1. Broken Chopstick

Word	PoS	English Definition	Sample Sentence
lawn	n.	an area of ground that is covered with short grass	Will you mow the lawn at the weekend?
pass	v.	to move past someone or something	I passed her on the stairs this morning.
slow down	phr.	to move slower	Can you slow down? I can't understand what you're talking.
enter	v.	to go into a particular place	Knock on the door before you enter the room.
refract	v.	to cause light or sound to change direction	Light is refracted when it hits water.
slightly	adv.	a little	This sauce is slightly spicy.
position	n.	the place where something or someone is	The chart shows the positions of the constellations in the night sky.
focused	adj.	concentrated	The focused light passing the convex lens makes things look bigger.

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## Unit 2. Tall Boy, Short Legs

Word	PoS	English Definition	Sample Sentence
entire	adj.	complete or full	We spent the entire day at the beach.
swimming pool	n.	an artificial area of water for swimming	Our neighbors have a swimming pool in their backyard.
dive	v.	to jump into water head-first	They will be diving from the highest platform.
funny	adj.	causing laughter	Do you know any funny jokes?
refraction	n.	light or sound changing direction	You can see the refraction of light through water in this experiment.
brain	n.	the organ inside the head that controls thought, memory, etc.	The left and right sides of the brain have different functions.
line	n.	the path along which something moves	We can see a bullet's line of flight using a special camera.
come in	phr.	to enter a place	Hasn't his train come in yet?

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## Unit 3. Pressure Changes, Volume Changes

Word	PoS	English Definition	Sample Sentence
certain	adj.	particular but not named	Certain people are always late for dinner.
apply	v.	to cause force, pressure, etc. to have an effect	He was able to stop the bleeding by applying pressure to the cut.
plunger	n.	a part of a device that you push down into the device	He pressed down the plunger of the French press.
lightly	adv.	gently	The rain fell lightly on the roof.
change	n.	the act of becoming different	There has been a change in our plans.
repeat	v.	to make or do something again	Would you mind repeating what you just said?
base on	phr.	to use particular facts or ideas to develop something	The film is based on a real-life story.
no matter	phr.	used to say that something is not important	I'm going to do it, no matter what you say.

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## Unit 4. A Bag of Chips

Word	PoS	English Definition	Sample Sentence
pack	v.	to put things into a bag, box, etc.	Don't forget to pack your toothbrush.
chip	n.	a thin slice of potato that is fried	I had a sandwich and a bag of chips for lunch.
in case	phr.	because of the possibility of something happening	We brought extra money just in case.
proud	adj.	feeling satisfied about something	You must be very proud of your daughter.
swell	v.	to become larger than normal	Excessive moisture will cause the wood to swell.
burst	v.	to break open or apart suddenly	Be careful not to burst the balloon.
inflated	adj.	filled and made larger with air or gas	The room is filled with inflated balloons.
suspicious	adj.	feeling doubt or no trust	There's a suspicious-looking van parked at the end of the street.

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## Unit 5. Two Different Lenses

Word	PoS	English Definition	Sample Sentence
lens	n.	a curved piece of glass or plastic that makes objects seem closer, smaller, etc.	Her eyeglasses have thick lenses.
bend	v.	to curve	The road bends to the left after the traffic lights.
convex	adj.	curving outward	Convex mirrors provide a wider field of view.
concave	adj.	curving inward	Concave lenses are used in eyeglasses that correct nearsightedness.
on the other hand	phr.	in a way that is different from the first thing mentioned	Tom is a good guy. His brother, on the other hand, is a selfish man.
transparent	adj.	able to be seen through	Frogs' eggs are covered in a transparent jelly.
laser pointer	n.	a small device with a light that produces a narrow beam	Teachers use laser pointers to show things clearly.
beam	n.	a line of light	We saw the beams from their flashlights.

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## Unit 6. Telescopes, Microscopes, and More!

Word	PoS	English Definition	Sample Sentence
observatory	n.	a building from which scientists study and watch the stars	The observatory is usually located on a mountaintop.
space	n.	the area where the planets and the stars are	Who was the first human being in space?
telescope	n.	a device that you look through to see things that are far away	With a good telescope, you can see craters on the moon.
explain	v.	to make something easy to understand	The teacher explained the rules to the children.
gather	v.	to bring together into a group	We gathered blueberries from the bushes.
in detail	phr.	more clearly, so that even the small parts can be seen	We will discuss the plan in detail.
binoculars	n.	a device that you hold up to your eyes and look through to see things that are far away	He saw a bird in a tree through binoculars.
microscope	n.	a device used for producing a large view of very small objects	Students viewed the crystals under a microscope.

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## Unit 7. The Flow of Electricity

Word	PoS	English Definition	Sample Sentence
electricity	n.	energy that is used to operate machines, lights, etc.	The electricity went off during the storm.
electrical	adj.	relating to electricity	There is a 25% discount on all electrical goods.
circuit	n.	the complete path that an electric current travels along	A defect was found in the electrical circuit.
electric current	n.	a flow of electric charge in a circuit	Switch off the electric current before changing the bulb.
wire	n.	a thin, flexible, thread of metal	A black wire connects the computer's monitor to its keyboard.
connect	v.	to join together	Can I connect this printer to your computer?
conductor	n.	a material that allows electricity to move through it	Metal is a good conductor of electricity.
complete	adj.	with all parts	I've collected the complete works of Charles Dickens.

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## Unit 8. All of the Lights

Word	PoS	English Definition	Sample Sentence
get ready	phr.	to prepare	We'd better get ready for lunch.
thread	n.	a long, thin piece of cotton, silk, etc.	You need a needle and thread to sew the button onto your coat.
light up	phr.	to begin shining	All of the lights on the display suddenly lit up.
join	v.	to put or bring together	Join the two pieces together using glue.
conduct	v.	to allow electricity or heat to go through	Copper conducts electricity, but plastic does not.
positive	adj.	containing a larger amount of protons	Current flows from the positive terminal to the negative.
negative	adj.	containing a larger amount of electrons	Each battery has to terminals, which are positive, and the other negative.
already	adv.	happening earlier	I already left by the time you called.



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## Unit 9. More Batteries

Word	PoS	English Definition	Sample Sentence
series	adj.	arranged one after another	Lamps operate on a series circuit.
connection	n.	something that connects two or more things	If the connection in the plug is loose, the charger doesn't work.
parallel	adj.	at a position along side each other	The voltage remains constant in the parallel connection.
remaining	adj.	left over after a part has been used	Susan's remaining lecture will take place on 22 February.
brightness	n.	the quality of producing light	You can adjust the light's brightness.
voltage	n.	the force of an electric current	We measured the changed in voltage across the circuit.
strong	adj.	powerful	Strong winds are forecast in the area for the next few days.
last	v.	to continue to exist	The meeting lasted two hours.

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## Unit 10. Electricity Everywhere

Word	PoS	English Definition	Sample Sentence
heater	n.	a device that produces heat	The heater in the car takes a long time to have any effect.
run	v.	to operate	We've run the computer program, but nothing happens.
plug	v.	to attach electrical equipment to a supply of electricity	The microphone isn't plugged in.
outlet	n.	a device into which a cord can be plugged to connect a device to electricity	The appliance can be connected to any standard outlet.
throw	v.	to send something through the air with force	We threw our hats in the air at the end of the ceremony.
grocery store	n.	a store that sells food and household supplies	She works on the checkout at the grocery store.
electronics	n.	devices that require electricity to work	Sales on electronics and toys have been strong.
overheat	v.	to become hotter than necessary	It isn't healthy to overheat your house.

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## Unit 11. Sea Breeze and Land Breeze

Word	PoS	English Definition	Sample Sentence
daytime	n.	the time of a day when the sky is lit up by the sun	I tend to sleep in the daytime and study at night.
sea breeze	n.	a wind that blows from the sea toward the land	The beautiful weather with a sea breeze helps to refresh the mind.
land breeze	n.	a wind that blows from the land toward the sea	A land breeze is a local nighttime wind that occurs along coasts and blows offshore.
lamp	n.	a device that produces light	I switched on the lamp behind the armchair.
heated	adj.	made hot or warm	We can swim in a heated swimming pool even in winter.
movement	n.	a change of position	We wore loose clothes to allow for easier movement.
heat up	phr.	to make something warm or hot	Could you heat up the vegetables, please?
create	v.	to make or produce	He created a wonderful meal from very few ingredients.

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## Unit 12. Flying a Kite

Word	PoS	English Definition	Sample Sentence
take a trip	phr.	to make a journey	We will take a trip to New York City this summer.
kite	n.	a frame covered with cloth or plastic that you fly in the air	The children were flying kites.
above	prep.	in a higher position than something else	He raised his arms above his head.
from A to B	phr.	from one place to another	It's about 2 kilometers from the airport to your hotel.
check out	phr.	to find out if something is true	The police are still trying to check out the evidence.
dinner	n.	the main meal of the day eaten in the evening	We had some friends over for dinner on Saturday.
go out	phr.	to leave a building for an activity	Please close the door as you go out.
flow	n.	the movement of something in one direction	They have to swim against the flow of the river.

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## Unit 13. The Height of the Sun

Word	PoS	English Definition	Sample Sentence
differ	v.	to be unlike something else	The two schools differ in their approach to discipline.
season	n.	one of the four periods of the year: spring, summer, fall, or winter	Spring is my favorite season of the year.
steep	adj.	rising or falling at a sharp angle	The stairs are very steep.
angle	n.	the space between two lines at the point at which they touch each other	The two lines meet at a sharp angle.
shallow	adj.	having a short distance from the top to the bottom	She told her children to stay in the shallow end.
once	adv.	one single time	I will repeat the question once.
heat energy	n.	energy produced by the movements of atoms and molecules	Energy in coal can be changed into heat energy by burning.
rise	v.	to move upward	The balloon rose gently up into the air.

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## Unit 14. The Length of the Day

Word	PoS	English Definition	Sample Sentence
set	v.	to go down below the horizon	We sat on the beach and watched the sun set.
bright	adj.	full of light	A bright star was shining in the East.
solar altitude	n.	the angle of the sun relative to Earth's horizon	Solar altitude is the angle of the sun relative to the Earth's horizon.
during	prep.	from the beginning to the end of a particular period	She swims every day during the summer.
at an angle	phr.	not horizontal or vertical, but sloping in one direction; tilted	The picture was hanging at an angle, so I straightened it.
revolve	v.	to move around a central point or line	The earth revolves around the sun.
maximum	n.	the largest amount possible	The maximum load for this elevator is eight persons.
minimum	n.	the smallest amount possible	Refrigerate the dough for a minimum of 2 hours.

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## Unit 15. Electricity From the Sun

Word	PoS	English Definition	Sample Sentence
imagine	v.	to think in your mind	It's hard to imagine what it would be like to be so wealthy.
coal	n.	a black hard substance that is used as a fuel	Wood, coal, oil, and gas are all different kinds of fuel.
climate change	n.	changes in the world's weather as a result of human activity	The President called for urgent action on climate change.
solar	adj.	of or from the sun	Scientists are searching for lives in other solar systems.
effective	adj.	achieving the results that you want	It's simple but effective technique.
plan	v.	to think about and arrange what you are going to do	We are busy planning the party.
implement	v.	to start using a plan or system	The new national health system will be implemented next year.
essential	adj.	necessary or needed	Water is essential to living things.

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## Unit 16. Web Developer

Word	PoS	English Definition	Sample Sentence
website	n.	a set of pages on the Internet about a particular subject	I've found a really useful website about allergies.
crash	v.	to stop operating	This program always crashes my computer.
manage	v.	to succeed in dealing with something	This plant manages to stay alive with very little water.
scroll	v.	to move text or images up or down on a computer screen	I scrolled down to the bottom of the screen.
sell out	phr.	to sell the entire amount of something	Tickets to the concert sold out quickly.
annoying	adj.	making you feel slightly angry	It's really annoying when a train is late and there's no explanation.
technical	adj.	relating to the knowledge or machines used in science and industry	If you have any problems, we offer 24-hour technical support.
load	v.	to fully display the page of a website	Sone apps on my smart TV are quite slow to load.