

Class

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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 <b>lawn</b> at the weekend?
pass	v.	to move past someone or something	I <b>passed</b> her on the stairs this morning.
slow down	phr.	to move slower	Can you <b>slow down</b> ? I can't understand what you're talking.
enter	v.	to go into a particular place	Knock on the door before you <b>enter</b> the room.
refract	v.	to cause light or sound to change direction	Light is <b>refracted</b> when it hits water.
slightly	adv.	a little	This sauce is <b>slightly</b> spicy.
position	n.	the place where something or someone is	The chart shows the <b>positions</b> of the constellations in the night sky.
focused	adj.	concentrated	The <b>focused</b> 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 <b>entire</b> day at the beach.
swimming pool	n.	an artificial area of water for swimming	Our neighbors have a <b>swimming pool</b> in their backyard.
dive	v.	to jump into water head-first	They will be <b>diving</b> from the highest platform.
funny	adj.	causing laughter	Do you know any <b>funny</b> jokes?
refraction	n.	light or sound changing direction	You can see the <b>refraction</b> 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 <b>brain</b> have different functions.
line	n.	the path along which something moves	We can see a bullet's <b>line</b> of flight using a special camera.
come in	phr.	to enter a place	Hasn't his train <b>come in</b> yet?

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## Unit 3. Pressure Changes, Volume Changes

Word	PoS	English Definition	Sample Sentence
certain	adj.	particular but not named	<b>Certain</b> 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 <b>applying</b> pressure to the cut.
plunger	n.	a part of a device that you push down into the device	He pressed down the <b>plunger</b> of the French press.
lightly	adv.	gently	The rain fell <b>lightly</b> on the roof.
change	n.	the act of becoming different	There has been a <b>change</b> in our plans.
repeat	v.	to make or do something again	Would you mind <b>repeating</b> what you just said?
base on	phr.	to use particular facts or ideas to develop something	The film is <b>based on</b> a real-life story.
no matter	phr.	used to say that something is not important	I'm going to do it, <b>no matter</b> 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 <b>pack</b> your toothbrush.
chip	n.	a thin slice of potato that is fried	I had a sandwich and a bag of <b>chips</b> for lunch.
in case	phr.	because of the possibility of something happening	We brought extra money just <b>in case</b> .
proud	adj.	feeling satisfied about something	You must be very <b>proud</b> of your daughter.
swell	v.	to become larger than normal	Excessive moisture will cause the wood to <b>swell</b> .
burst	v.	to break open or apart suddenly	Be careful not to <b>burst</b> the balloon.
inflated	adj.	filled and made larger with air or gas	The room is filled with <b>inflated</b> balloons.
suspicious	adj.	feeling doubt or no trust	There's a <b>suspicious</b> -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 <b>lenses</b> .
bend	v.	to curve	The road <b>bends</b> to the left after the traffic lights.
convex	adj.	curving outward	<b>Convex</b> mirrors provide a wider field of view.
concave	adj.	curving inward	<b>Concave</b> 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, <b>on the other hand</b> , is a selfish man.
transparent	adj.	able to be seen through	Frogs' eggs are covered in a <b>transparent</b> jelly.
laser pointer	n.	a small device with a light that produces a narrow beam	Teachers use <b>laser pointers</b> to show things clearly.
beam	n.	a line of light	We saw the <b>beams</b> 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 <b>observatory</b> is usually located on a mountaintop.
space	n.	the area where the planets and the stars are	Who was the first human being in <b>space</b> ?
telescope	n.	a device that you look through to see things that are far away	With a good <b>telescope</b> , you can see craters on the moon.
explain	v.	to make something easy to understand	The teacher <b>explained</b> the rules to the children.
gather	v.	to bring together into a group	We <b>gathered</b> blueberries from the bushes.
in detail	phr.	more clearly, so that even the small parts can be seen	We will discuss the plan <b>in detail</b> .
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 <b>binoculars</b> .
microscope	n.	a device used for producing a large view of very small objects	Students viewed the crystals under a <b>microscope</b> .

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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 <b>electricity</b> went off during the storm.
electrical	adj.	relating to electricity	There is a 25% discount on all <b>electrical</b> goods.
circuit	n.	the complete path that an electric current travels along	A defect was found in the electrical <b>circuit</b> .
electric current	n.	a flow of electric charge in a circuit	Switch off the <b>electric current</b> before changing the bulb.
wire	n.	a thin, flexible, thread of metal	A black <b>wire</b> connects the computer's monitor to its keyboard.
connect	v.	to join together	Can I <b>connect</b> this printer to your computer?
conductor	n.	a material that allows electricity to move through it	Metal is a good <b>conductor</b> of electricity.
complete	adj.	with all parts	I've collected the <b>complete</b> 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 <b>get ready</b> for lunch.
thread	n.	a long, thin piece of cotton, silk, etc.	You need a needle and <b>thread</b> to sew the button onto your coat.
light up	phr.	to begin shining	All of the lights on the display suddenly <b>lit up</b> .
join	v.	to put or bring together	<b>Join</b> the two pieces together using glue.
conduct	v.	to allow electricity or heat to go through	Copper <b>conducts</b> electricity, but plastic does not.
positive	adj.	containing a larger amount of protons	Current flows from the <b>positive</b> terminal to the negative.
negative	adj.	containing a larger amount of electrons	Each battery has two terminals, which are positive, and the other <b>negative</b> .
already	adv.	happening earlier	I <b>already</b> 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 <b>series</b> circuit.
connection	n.	something that connects two or more things	If the <b>connection</b> 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 <b>parallel</b> connection.
remaining	adj.	left over after a part has been used	Susan's <b>remaining</b> lecture will take place on 22 February.
brightness	n.	the quality of producing light	You can adjust the light's <b>brightness</b> .
voltage	n.	the force of an electric current	We measured the changed in <b>voltage</b> across the circuit.
strong	adj.	powerful	<b>Strong</b> winds are forecast in the area for the next few days.
last	v.	to continue to exist	The meeting <b>lasted</b> two hours.

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## Unit 10. Electricity Everywhere

Word	PoS	English Definition	Sample Sentence
heater	n.	a device that produces heat	The <b>heater</b> in the car takes a long time to have any effect.
run	v.	to operate	We've <b>run</b> the computer program, but nothing happens.
plug	v.	to attach electrical equipment to a supply of electricity	The microphone isn't <b>plugged</b> 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 <b>outlet</b> .
throw	v.	to send something through the air with force	We <b>threw</b> 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 <b>grocery store</b> .
electronics	n.	devices that require electricity to work	Sales on <b>electronics</b> and toys have been strong.
overheat	v.	to become hotter than necessary	It isn't healthy to <b>overheat</b> 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 <b>daytime</b> and study at night.
sea breeze	n.	a wind that blows from the sea toward the land	The beautiful weather with a <b>sea breeze</b> helps to refresh the mind.
land breeze	n.	a wind that blows from the land toward the sea	A <b>land breeze</b> is a local nighttime wind that occurs along coasts and blows offshore.
lamp	n.	a device that produces light	I switched on the <b>lamp</b> behind the armchair.
heated	adj.	made hot or warm	We can swim in a <b>heated</b> swimming pool even in winter.
movement	n.	a change of position	We wore loose clothes to allow for easier <b>movement</b> .
heat up	phr.	to make something warm or hot	Could you <b>heat up</b> the vegetables, please?
create	v.	to make or produce	He <b>created</b> 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 <b>take a trip</b> 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 <b>kites</b> .
above	prep.	in a higher position than something else	He raised his arms <b>above</b> his head.
from A to B	phr.	from one place to another	It's about 2 kilometers <b>from</b> the airport <b>to</b> your hotel.
check out	phr.	to find out if something is true	The police are still trying to <b>check out</b> the evidence.
dinner	n.	the main meal of the day eaten in the evening	We had some friends over for <b>dinner</b> on Saturday.
go out	phr.	to leave a building for an activity	Please close the door as you <b>go out</b> .
flow	n.	the movement of something in one direction	They have to swim against the <b>flow</b> 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 <b>differ</b> in their approach to discipline.
season	n.	one of the four periods of the year: spring, summer, fall, or winter	Spring is my favorite <b>season</b> of the year.
steep	adj.	rising or falling at a sharp angle	The stairs are very <b>steep</b> .
angle	n.	the space between two lines at the point at which they touch each other	The two lines meet at a sharp <b>angle</b> .
shallow	adj.	having a short distance from the top to the bottom	She told her children to stay in the <b>shallow</b> end.
once	adv.	one single time	I will repeat the question <b>once</b> .
heat energy	n.	energy produced by the movements of atoms and molecules	Energy in coal can be changed into <b>heat energy</b> by burning.
rise	v.	to move upward	The balloon <b>rose</b> 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 <b>set</b> .
bright	adj.	full of light	A <b>bright</b> star was shining in the East.
solar altitude	n.	the angle of the sun relative to Earth's horizon	<b>Solar altitude</b> 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 <b>during</b> the summer.
at an angle	phr.	not horizontal or vertical, but sloping in one direction; tilted	The picture was hanging <b>at an angle</b> , so I straightened it.
revolve	v.	to move around a central point or line	The earth <b>revolves</b> around the sun.
maximum	n.	the largest amount possible	The <b>maximum</b> load for this elevator is eight persons.
minimum	n.	the smallest amount possible	Refrigerate the dough for a <b>minimum</b> 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 <b>imagine</b> what it would be like to be so wealthy.
coal	n.	a black hard substance that is used as a fuel	Wood, <b>coal</b> , 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 <b>climate change</b> .
solar	adj.	of or from the sun	Scientists are searching for lives in other <b>solar</b> systems.
effective	adj.	achieving the results that you want	It's simple but <b>effective</b> technique.
plan	v.	to think about and arrange what you are going to do	We are busy <b>planning</b> the party.
implement	v.	to start using a plan or system	The new national health system will be <b>implemented</b> next year.
essential	adj.	necessary or needed	Water is <b>essential</b> 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 <b>website</b> about allergies.
crash	v.	to stop operating	This program always <b>crashes</b> my computer.
manage	v.	to succeed in dealing with something	This plant <b>manages</b> to stay alive with very little water.
scroll	v.	to move text or images up or down on a computer screen	I <b>scrolled</b> down to the bottom of the screen.
sell out	phr.	to sell the entire amount of something	Tickets to the concert <b>sold out</b> quickly.
annoying	adj.	making you feel slightly angry	It's really <b>annoying</b> 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 <b>technical</b> support.
load	v.	to fully display the page of a website	Some apps on my smart TV are quite slow to <b>load</b> .