

**Class**

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## Unit 1. Light Travels

Word	PoS	English Definition	Sample Sentence
straight	adj.	continuing in one direction without bending or curving	She has straight blonde hair.
flashlight	n.	a small light that is held in the hand and runs on batteries	She shone the flashlight into the dark room.
direction	n.	the course on which something is moving	They drove away in opposite direction.
target	n.	something that you try to hit with arrows, bullets, etc.	I had four shots but I didn't hit the target.
toward	prep.	in the direction of	She stood up and walked toward him.
reflection	n.	the return of light, heat, sound, or energy from a surface	When light hits a mirror, it changes direction, and it is called reflection.

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## Unit 2. The Bus Driver

Word	PoS	English Definition	Sample Sentence
get on	phr.	to go onto a bus, train, aircraft, or boat	I think we got on the wrong bus.
crowded	adj.	full of people	As Christmas gets closer, the shops get more crowded.
get off	phr.	to leave a train, bus, or aircraft	We should get off the train right now.
rearview mirror	n.	a mirror that allows a driver to see behind their car	Always check your rearview mirror when you drive.
front	n.	the forward part of something	The front of the museum is very colorful.
stop	n.	a place where vehicles stop to let passengers get on and off	I'm getting off at the next stop.

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## Unit 3. The Water Cycle

Word	PoS	English Definition	Sample Sentence
evaporate	v.	to cause a liquid to change to a gas	The heat evaporated the water.
condense	v.	to change from a gas to a liquid or solid state	Steam condenses into water when it cools.
cycle	n.	a set of events that happen again and again	These plants have a 2-year growth cycle.
seal	v.	to close an entrance or container	He sealed the jar.
decrease	v.	to become less	The number of new students decreased from 200 to 160 this year.
increase	v.	to become larger in amount or size	The price of oil increased.

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## Unit 4. From the Kitchen to the Clouds

Word	PoS	English Definition	Sample Sentence
vacation	n.	a period of time that a person spends away from home to relax	They went to Europe on vacation.
forget	v.	to be unable to remember something	Don't forget to do your homework!
become	v.	to begin to be something specified	They both became teachers.
cloud	n.	a white or gray mass in the sky	There are no clouds in the sky.
high	adv.	at or to a large distance from the ground	The painter climbed high on the ladder.
again	adv.	one more time	Can you spell your name again, please?

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## Unit 5. A Raft of Straws

Word	PoS	English Definition	Sample Sentence
coin	n.	a small, round piece of metal that is used as money	We need some coins to use the vending machines.
raft	n.	a flat structure that is used for floating or sailing on water	My dad made a raft last summer.
design	v.	to make or draw plans for something	Who designed this dress?
blueprint	n.	a photographic print of early plan for building or machine	Jake drew a blueprint of a new aircraft.
buoyancy	n.	the quality of being able to float	We tested the boat for buoyancy.
upward	adv.	toward a higher position	She turns her face upward to the sun.

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## Unit 6. How Does a Ship Float?

Word	PoS	English Definition	Sample Sentence
ship	n.	a large boat for traveling on water	The ship sank slowly into the ocean.
Internet	n.	a system that connects computers throughout the world	Use your phone to connect to the Internet.
search	v.	to use a computer to find information in	I will search for Korean restaurants in this area.
force	n.	physical power	The force of the wind brought down many trees in the area.
be made of	phr.	to be composed of	This vase is made of glass.
huge	adj.	very large	They live in a huge house.

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## Unit 7. Ice Fishing

Word	PoS	English Definition	Sample Sentence
spray	v.	to spread small drops over an area	She sprayed herself with perfume.
stairs	n.	a series of steps that go from one level or floor to another	Her office is at the top of the stairs.
ingredient	n.	one of the things that are used to make a food, product, etc.	The list of ingredients included a bottle of milk.
ice cube	n.	a small block of ice	The ice cube in the cup melted.
make sure	phr.	to do something so that you have no doubt	Make sure to turn the light off.
degree	n.	a unit of measurement of temperature	Water freezes at zero degrees Celsius.

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## Unit 8. Frozen

Word	PoS	English Definition	Sample Sentence
aunt	n.	the sister of your father or mother or the wife or your uncle	I have an aunt in Australia.
even	adv.	used to show that something is surprising, unusual, unexpected, or extreme	"I never cry." "Not even when you hurt yourself really badly?"
reply	v.	to say, write, or do something as an answer or response	I try to reply to letters the day I receive them.
ask	v.	to put a question to someone	She asked me a question.
because	conj.	for the reason that	I made it because my mom told me to do.
lower	v.	to reduce the value or amount of something	Please lower your voice.



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## Unit 9. The Power of Pulleys

Word	PoS	English Definition	Sample Sentence
lift	v.	to put something or someone in a higher position	Could you help me lift this table, please?
pulley	n.	an equipment that consists of a rope and wheel for moving objects up or down	The stone have to be lifted by a pulley.
wheel	n.	a circular object used for moving machines	The wheel of the car was started to spin on the icy road.
loose	adj.	not tightly fastened, attached, or held	The rope was tied in a loose knot.
wrap	v.	to cover or surround something with something else	Wrap the chicken in foil and cook it.
distribute	v.	to give or deliver something	The organization distributes food and clothing to needy families.

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## Unit 10. Inventions of the Past

Word	PoS	English Definition	Sample Sentence
fortress	n.	a place that is protected against attack	The enemy attacked our fortress.
electricity	n.	a form of energy that provides power to operate the devices	The electricity has been turned off.
easily	adv.	with no difficulty or effort	I can finish my homework easily.
work	v.	to perform or operate	The computer isn't working.
carry	v.	to move something from one place to another	These books are too heavy for me to carry.
need	v.	to want or require something very much	Babies need constant care.

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## Unit 11. A Volcanic Eruption

Word	PoS	English Definition	Sample Sentence
magma	n.	hot liquid rock below the surface of the Earth	Magma erupts in the form of lava.
volcano	n.	a mountain with a hole at the top that sends out rocks, ash, and lava in a sudden explosion	The dust from the volcano spread out.
erupt	v.	to send out rocks, lava, etc. in sudden explosion	Tons of ash erupted from the volcano.
lava	n.	hot liquid rock from a volcano	The lava flows down like thick honey.
detergent	n.	a chemical substance for removing dirt	We have tried different laundry detergents.
vinegar	n.	a sour liquid that is used to flavor or preserve foods	Would you like oil and vinegar on your salad?

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## Unit 12. Volcanoes: Good or Bad

Word	PoS	English Definition	Sample Sentence
worried	adj.	unhappy because you are thinking about bad things	We were worried that we would arrive late.
danger	n.	the possibility of harm or death to someone	He drove so fast that I felt my life was in danger.
cause	v.	to make something happen or exist	The bright light caused her to blink.
ash	n.	the gray powder that remains after a substance has burned	The gray ash was all over the sky.
surface	n.	the outer or top part or layer of something	The surface of the wood is rough.
hot spring	n.	a place where hot water flows out of the ground	My parents love to go to the hot springs.

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## Unit 13. The Faults in Our Earth

Word	PoS	English Definition	Sample Sentence
crust	n.	the outer layer of the Earth	Forty-seven percent of the Earth's crust consists of oxygen.
puzzle	n.	a game in which you have to fit separate pieces together	The building blocks are like the pieces of a puzzle.
crack	v.	to break so there are lines in the surface but not separated into pieces	A stone hit the window and cracked the glass.
fault	n.	a break in the Earth's crust	Frequent earthquakes have occurred along the San Andreas Fault.
spine	n.	the part of a book to which the pages are attached	A book's spine often has the title and author's name printed on it.
relax	v.	to cause something to become less tense or tight	A hot shower relaxed the tight muscle in my neck and shoulders.

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## Unit 14. Earthquake Safety

Word	PoS	English Definition	Sample Sentence
grab	v.	to take and hold something with your hand or arms	He grabbed his son's arm to stop him from running into the road.
news report	n.	a short account or article of the news	The news report says a tornado is coming.
fall down	phr.	to break into pieces and drop to the ground	Many buildings in the old city are falling down.
turn off	phr.	to cause to stop operating	You should turn off the TV and go to bed.
power	n.	the electricity that people use to operate machines	We lost power during the snowstorm.
elevator	n.	a machine used for carrying people to different floors	They took the elevator to the 10th floor.

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## Unit 15. Machines All Around

Word	PoS	English Definition	Sample Sentence
complicated	adj.	hard to understand or deal with	The game's rules are too complicated.
mechanical	adj.	operated by, or connected with machines or their parts	The company produces mechanical parts for airplane engines.
industry	n.	a group of business that provides a particular product or service	She got a job in new industry.
turn on	phr.	to cause to start operating	Would you please turn on the fan?
switch	n.	a small device that starts or stops the flow of electricity	He pressed the switch to stop the machine.
fridge	n.	an equipment that uses electricity to preserve food	Don't forget to put the milk back in the fridge.

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## Unit 16. Underwater Explorers

Word	PoS	English Definition	Sample Sentence
important	adj.	necessary or having serious meaning	Scientists have made important discoveries.
archaeologist	n.	someone who studies the past human life and activities	My friend said she wanted to be an archaeologist when she was young.
dig	v.	to form a hole by moving soil	The dog was digging a hole to hide the toy.
percent	n.	a rate of something that is expressed as a number out of 100	You got 20 percent of the answers right.
item	n.	something that is part of a list or group of things	I need to buy some household items like soap.
underwater	adv.	under the surface of the water	Some species of turtle can remain underwater for 24 hours.