10 sources of energy

- Alternative Ways of Saying Things
- · Reading: Sources of Energy
- · Writing about Places
- · Relative Clauses with Prepositions
- Common Scientific Terms





- a) Listen to Part 1 of the passage. Decide whether the following statements are true (T) or false (F). Check (\checkmark) the correct box.
 - 1. The sun is a member of the solar system.
 - 2. The sun is the main source of energy of this system.
 - 3. The sun's movement keeps the other members in orbit.
 - 4. It can be said that life on Earth depends on the sun.

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b)	Listen to Part 2 of the passage. Unscramble the following phrases. Number 1 is an example.					
	1. future system the solar the of \rightarrow the future of the solar system					
	2. of sun the behavior t	he ->				
	3. the much temperatur	re same size and \rightarrow				
	4. 4 more billion years	or 5 billion →				
		·				
		ear →				
		d giant →				
c)	Listen again to Part 2 of the passage. Write the complete verb forms or verb groups in which the following verbs appear in the recording. Number 2 is an example.					
	1. depend	2. be	<u>are</u>			
	3. have	4. burn				
	5. begin	6. grow				
	7. turn	_				
d)	Listen to Part 3 of the passage. Number the following words or phrases in the order in which you hear them. Number 3 is an example.					
	dwarf	orbit	nonluminous			
	exhausted	cool down	frozen chunks			
	shrunken star	evolving				
e)	Listen again to Part 3 of the passage. Match the word(s) in column A with their meanings in column B.					
	Α		В			
	1. exhausted	a. become less hot or	lose heat			
	2. cool down	b. thick; with a lot together	of substances crowded			

c. not bright; not shinning or emitting light

3. dwarf

4. dense	d. reduced in size by being drawn together
5. nonluminous	e. much smaller than the average of their kind
6. chunks	f. completely empty of energy or resources
7. shrunken	g. thick solid masses (large pieces of sth) that do not have definite shapes or forms



SPEAKING

- a) Before-speaking activity. Work with a partner, telling what you know about the solar system: the number of the planets; their names, sizes, positions, etc.
- **b)** Two students Kim and Phi are talking about Pluto. With a partner, match what Phi says in column A with what Kim says in column B to make a complete conversation.

	A Phi		B Kim
1.	Kim, did you learn that Pluto is no longer a member of our solar system?	a.	I certainly did, Phi. I can't believe it. It seems like Pluto's been with the system forever.
2.	It's too bad it has to go. I was hoping to write a report about it.	b.	That's right. He's sad that Pluto is removed from the system.
3.	He did? You mean, he's an astronomer?	c.	And the second reason is it has an usual orbit.
4.	And he's watched the night sky ever since?	d.	Me, too. You know, my father used to tell me interesting things about it.
5.	I bet he is, but it's the decision of the scientists anyway.	e.	But it's got an atmosphere. It even has a moon.
6.	Well, let's see. In the first place it's not large enough to be considered a planet.	f.	Yea, he completed a master's degree in astronomy 30 years ago.

7.	Right. Pluto's orbit is elliptical, and it orbits on a different plane from all the other planets of the system.	g.	Okay, let's not go into much detail. I really want the scientists to leave my Pluto in Walt Disney cartoons alone.
8.	That's true. It's just that Neptune's gravity sort of pulls Pluto and	h.	So what makes Pluto so different that it could be, um reclassified, as a dwarf planet?
9.	I'm sure your Pluto will be safe there, um on the screen.	i.	Yeah, they'd better not touch him!

c) Role play. Practice the above conversation with a partner, playing the role of Phi and then of Kim.



Read the following passage. Then answer all the questions below it.

Sources of Energy



Horses working for man

When man first appeared on earth, his greatest source of power was his own physical strength. As he grew wiser, he learned to make animals supply power for him. Then, many centuries later, he discovered that wind and water were even better power sources than animals. Still later he found that power from steam, coal, and oil was often even better than these.

In the latest search for improved living, physicists – scientists who study energy and matter – have been led to the study of the atom. The physicists have found that atomic energy can do such things as supplying

electricity to cities, *blasting out* harbors, running ships and submarines, and may soon provide energy for space flights.

Finding ways to make the atom work for us is a new science. It just started in the twentieth century. However, by working with atoms, scientists have found that these tiny *storehouses of energy* can both help and, unfortunately, harm mankind.

1.	Which of the following is the main is A. Man's greatest sources of power B. Man's own physical strength C. Man's earlier sources of energy D. Man's most recent source of power	
2.	The word <i>wiser</i> in paragraph 1 probated A. older and weaker B. richer and more powerful C. having ability to invent useful thir D. having more experience and know	ngs
3.	The word <i>these</i> at the end of paragra, A. power sources C. coal and oil	ph 1 refers to B. animals D. steam and coal
4.	According to paragraph 2, which of atomic energy? A. It is the newest source of power. B. It was discovered too late. C. It was discovered by physicists. D. It can be used for various purpose	
5.	Which of the following is closest paragraph 2? A. removing rock violently out of B. blowing everything away from C. creating out of rock by explosion D. filling up with air and water	in meaning to blasting out in

6.	The phrase <i>storeh</i> replaced by	200	energy in	paragraph	3 could	best be
	A. fossils		Е	B. stores		
	C. rocks		Γ). atoms		
7.	Why does man keep	searching	for new s	ources of e	nergy?	
8.	According to parage energy. What is the	•			ried abou	ut atomic



The following sentences make up a paragraph describing a city. First, write the sentences in full. Then, put the sentences together to form a paragraph. Number 1 is an example.

This is London



London Tower Bridge

- Every year, more than nine million people / over the world / visit London
 - → Every year, more than nine million people <u>from all over</u> the world visit London.
- They go / the theaters and museums; they look / interesting old buildings, many / them hundreds / years old; they sit

or walk / the beautiful parks, or have a drink / a pub

3.	They go / Oxford Street to look / the big shops, or to Harrods, the most famous shop / London, Knightsbridge
4.	Two million people go to / Tower of London. A million more go / see St. Paul's Cathedral
5.	You can see much more / London from one / its famous red buses
6.	Some special visitors' buses take you / many of / interesting places / the city on one journey
7.	It takes about one and / half hours, but you can break your journey / get off (and on again) / the different places you want / visit
8.	When you are tired / looking at buildings, you can sit / walk in one / London's beautiful parks
9.	They are good places / get away / the crowds / the noise of the city
10	Yes, London is / big and beautiful city / lots to see / do



1. Relative Clauses with Prepositions

a)	Join each pair of	sentences i	n three	different	ways.	Two pairs	can be	joined
	in only two ways.	Number 1 is	s an exa	mple.				

1.	He's the man. I sent the money to him.				
	a. He's the man to whom I sent the money.				
	b. He's the man $who(m)$ I sent the money to.				
	c. He's the man I sent the money to.				
2.	She's the nurse. We gave the flowers to her.				
	a				
	b				
	c,				
	3. I'll introduce you to the students. I'm working on a project with them. a. b. c.				
4.	This is the pan. I boiled the eggs in it.				
	a				
	b				
	c,				
5.	We were speaking to the man. The man was our new biology teacher.				
	a				
	b				
	c				
6.	The police are talking with the neighbor. The pictures were stolen from his house.				
	a				
	b				
	c				
	A2 V				

7	complain	ned about the	poor service	as refunded part of there.	
0					41
8				have no control over	
	b				*
	c				
		ed blank in eac	410	answer or answers tha	t can best fit in
	just happ to be passir the man (4)	pened ng she	in Residence was speaking n	ady, the woman (1)_n our office, wanted obinson, but she dia umber. The number of a public pareet. A man, (3) assing at the time, horizing and answered obinson?" Judy asked the man answered. It is to was actually can be phone booth when	to phone Mr. aled the wrong r (2) but to be the ty phone in the was eard the phone it. "Is that Mr. ed. "Speaking," turned out that alled Robinson
1.	who	whom	☐ which	□Ø (zero word)	(1 answer)
2.	☐ who	□ which	that	□Ø (zero word)	(3 answers)
3.	□ who	□ whom	□ which	□Ø (zero word)	(1 answer)
4.	□ who	☐ whom	□ which	□Ø (zero word)	(3 answers)

2. Common Scientific Terms

Complete the following sentences, using scientific terms formed with bio-, geo-, and eco-. The italicized words are clues provided to help you. Number 1 is an example.

1.	"What do you call a war in which bacteria are used as weapons of war?"
	"You call it a (bio-) biological war."
2.	I'm doing physics, biology, and chemistry – of which (bio-) is my favorite subject.
3.	Biotechnology is the use of living cells and bacteria in industrial and scientific processes. If you choose this subject, you'll have to do a lot of (bio-) research.
4.	Geology is the scientific study of the origin, history, and structure of the earth. It's different from (geo-), which is the scientific study of the earth's surface, including its physical features, climate and soil, and the distribution of life on the earth.
5.	"What's a (geo-) storm?"
	"It's a disturbance in the earth's <i>magnetic</i> field caused by a sudden but unsteady emission of intense light from the sun."
6.	The importance of a town or city is generally due to its (<i>geo-</i>)location. Most large cities of the world are near the sea, for example.
7.	(<i>Eco-</i>) is designed so that <i>tourists</i> damage the environment as little as possible.
8.	Farming practices which are not harming the ecology are (eco-) or environment-friendly agricultural methods.
9.	Successful business firms are those which are highly adaptable to (eco-) changes both in the country and in the outside world.
10.	Older people are important contributors to the (<i>eco-</i>) of European countries today because of the very low birthrate in Europe. Many retiring people are asked to stay with the company for two or more years.