

别小看孩子

Care for the Ea

THOMPSON



外语教学与研究出版社

FOREIGN LANGUAGE TEACHING AND RESEARCH PRESS

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果你希望读到地道的英语,在享受英语阅读乐趣的 同时又能增长知识、开拓视野,这套由外语教学与研究出版社与美国国家地理学会合作出版的"国家地理科学探索丛书"正是你的选择。

"国家地理科学探索丛书"分为9个系列,内容涉及自然 科学和社会研究,秉承《国家地理》杂志图文并茂的特色,书 中配有大量精彩的图片,文字通俗易懂、深入浅出,将科学 性和趣味性完美结合,称得上是一套精致的小百科。

这套丛书以英文注释形式出版,注释由国内重点中学教学经验丰富的英语教师完成。特别值得推荐的是本套丛书在提高青少年读者英语阅读能力的同时,还注重培养他们的科学探索精神、动手能力、逻辑思维能力和沟通能力。

本丛书既适合学生自学,又可用于课堂教学。丛书各个系列均配有一本教师用书,内容包括背景知识介绍、技能训练提示、评估测试、多项选择题及答案等详尽的教学指导,是对课堂教学的极好补充。

本套从书是适合中学生及英语爱好者的知识读物。



国 家 地 理 科学探索丛书

KIDS MAKE A DIFFERENCE



Gare Thompson (美) 著 余国英 注

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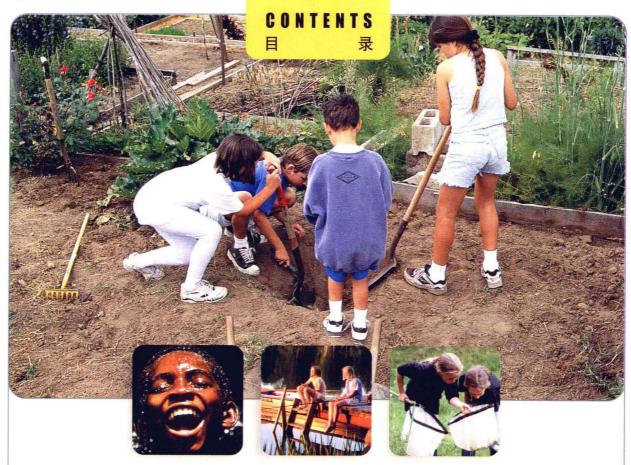
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ur Earth is filled with many useful things found in nature. These things are called natural resources.

Some of our natural resources are

- plants
- air
- water
- minerals1
- land
- fuels2

We use minerals, such as copper³, silver, and quartz⁴, to make wires⁵, jewelry⁶, computers, and so many other products. We burn fuels, like oil and gasoline⁷, to heat our homes and power⁸ our cars.

But what happens to natural resources after we use them?

There are two kinds of natural resources on Earth. Resources that can be replaced⁹ or replace themselves are called renewable 10 resources. Resources that are gone after we use them are called nonrenewable resources.

1.	mineral	11.	矿物
2.	fuel	11.	燃料
3.	copper	11.	铜
4.	quartz	n.	石英
5.	wire	n.	电线
6.	jewelry	n.	珠宝
7.	gasoline	n.	汽油
8.	power	ν.	给提供动力
9.	replace	r.	替代
10.	renewable	adj.	可再生的
11.	fertilizer	71.	肥料
12.	energy	11.	能量



Renewable Resources

- Land can be renewed by adding fertilizer¹¹ to the soil or by changing the crops grown on it.
- Trees can be replanted.
- Water is renewed whenever it rains or snows.

Nonrenewable Resources

- Minerals that are mined and used cannot be replaced.
- Fuels that are burned and used for energy¹² cannot be replaced.



Our renewable natural resources—water, land, and air—will not last forever if we don't care for them. We have to learn to conserve¹, or protect², these resources. We have to learn to manage them wisely³.

For most of us, water seems like a never-ending resource. It pours⁴ out of the tap⁵ whenever we need some. As the world population⁶ grows, more and more people are using

water. Conserving our water helps ensure⁷ that future generations⁸ will still have clean, usable water.

We need clean air to breathe. Our lawmakers⁹ have passed laws to help keep our air clean. But many people are trying to find their own ways to keep our air clean and healthy¹⁰. Some people ride bikes, walk, or take buses or subways¹¹ instead of driving.



1.	conserve	V_{\cdot}	保护
2.	protect	<i>V</i> .	保护
3.	wisely	adv.	明智地
4.	pour	15	不断流出
5.	tap	n.	水龙头
6.	population	17.	人口
7.	ensure	12.	确保
8.	future generations		后代
9.	lawmaker	11.	立法者
10.	healthy	aelj.	对健康有益的
11.	. subway	n.	地铁

Using Earth's Resources

利用地球资源

Water, land, and air are important natural resources. We use these resources every day. We depend on them for life. Think about the many ways people depend on Earth's resources.

We use water to

- wash and clean
- drink
- water plants and gardens
- swim and fish
- travel from place to place

We use air to

■ breathe and support² life

We use land to

- plant flower gardens
- grow food crops



People drink over 60,565 liters⁷ (16,000 gallons⁸) of water during their lifetime.

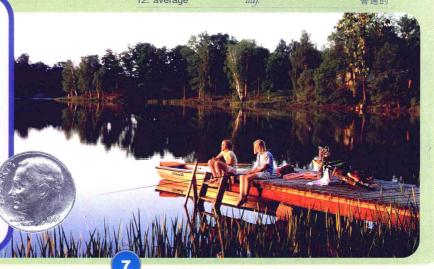
Five tons of topsoil⁹ spread over one acre¹⁰ is only as thick as a dime¹¹.

The average¹² person takes about 20,000 breaths a day.

- grow trees to make paper and wood products build homes
- do recreational³ sports, such as camping⁴ and hiking⁵

How do you use these resources? How do you think businesses and industries⁶ use these resources?

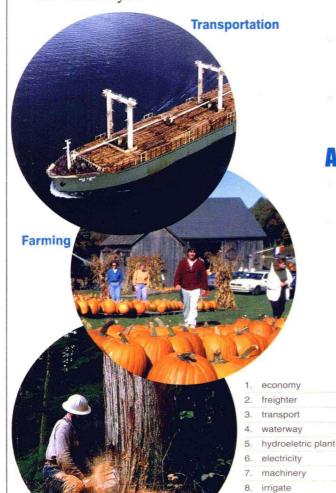
1.	depend on			依靠
2.	support	ν.		维持
3.	recreational	adj.	消遣的;	娱乐的
4.	camping	n.		宿营
5.	hiking	n.	1	走步旅行
6.	industry	n.		工业
7.	liter	11.		公升
8.	gallon	n.		加仑
9.	topsoil	n.		表层土
10.	acre	n		英亩
11.	dime	12.	(美国和加拿大的)-	一角硬币
12	average	adi		並活 65



Businesses and industries—large and small—are an important part of our country's economy!. The economy is the way a country produces and uses goods, services, and natural resources. The United States is rich in natural resources. Here are some ways industries use these resources.

Water

Huge freighters² transport³, or carry, goods from one part of the world to another on our waterways⁴.



- Hydroelectric plants⁵ use water to make electricity⁶. Some factories depend on these plants for the power to run their machinery⁷.
- Farmers use water to irrigate⁸ their crops.

Land

- Farmers use land to grow food and plants like cotton and to raise⁹ animals.
- Highways¹⁰ and train tracks¹¹ are built on the land. Industries transport their goods from place to place on highways and train tracks.
- Companies mine¹² minerals from the land. Industries depend on minerals to manufacture¹³ products.
- Foresters¹⁴ grow and harvest trees to make paper, furniture¹⁵, and homes.

Air

- The transportation industry depends on air to fly planes, jets¹⁶, and hot air balloons.
- The communications¹⁷ and entertainment¹⁸ industries use the airwaves¹⁹. Most of the sounds we hear travel through the air.

经济

货船

运输

水道

机械

灌溉

饲养

水力发电厂

10.	highway	H.	公路,交通干线
11.	track	11.	轨道
12.	mine	ν.	开采
13.	manufacture	v	(大量)生产
14.	forester	11.	在森林居住及工作的人
15.	furniture	11.	家具
16.	jet	n.	喷气式飞机
17.	communication	11.	通讯
18.	entertainment	n.	娱乐
19.	airwaves	17.	电波

raise

mber Harvesting

Renewable Resources

Water, land, and air are renewable resources. They renew themselves through cycles¹. These cycles ensure that these resources can be renewed or replaced over time.

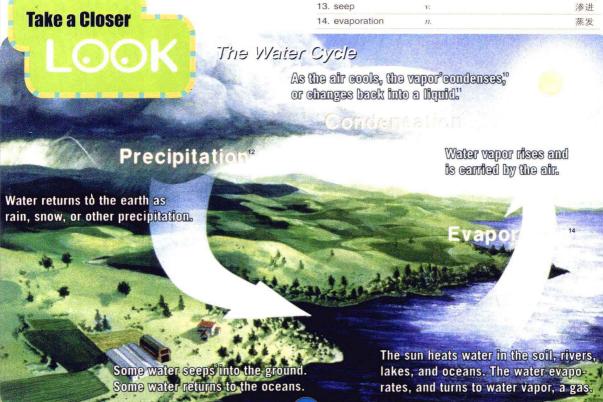
Water

Plants, animals, and people need water to live. Water is the most common substance² on Earth, yet our supply of usable water is limited.

Water covers more than 70 percent³ of the Earth's surface⁴. About 97 percent of the water on Earth is in the oceans⁵, which are salty⁶. Only 3 percent is fresh⁷, and most of that water is ice. We need fresh water to drink and to grow crops.

Today we have as much water as the dinosaurs⁸ did! The water on Earth replaces itself through the water cycle.

1.	cycle	n.	循环
2.	substance	п.	物质
3.	percent	н.	百分之一
4.	surface	n.	表面
5.	ocean	п.	海洋
6.	salty	adj.	咸的
7.	fresh	adj.	淡的
8.	dinosaur	11.	恐龙
9.	vapor	л.	蒸汽
10.	condense	ν_{\cdot}	凝结: 凝固
11.	. liquid	n.	液体
12.	precipitation	17.	降水
13.	. seep	ĸ	渗进
14.	evaporation	n.	蒸发

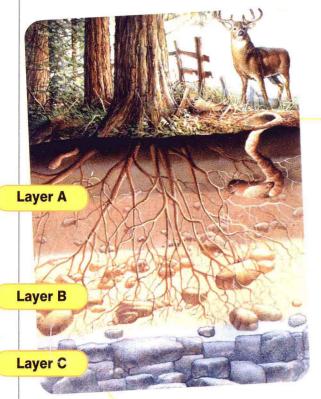


Land

An important part of land is its soil. Plants need soil to grow. People and animals need plants for food.

Soil generally has three layers². The top layer is the most important to plants. This layer is rich in nutrients³, or plant food. It is called topsoil. The richer the soil, the better plants grow. The diagram⁴ shows the layers of soil.

2. 1	ayer		
		11.	层
3. r	nutrient	n.	营养
4. (diagram	17.	示意图
5. a	alive with		充满的
6. r	root	и.	根
7. t	iny	adj.	极小的
8. b	pacterium	n.	(pl. bacteria)细菌
9. f	ungus	n.	(pl. fungi)真菌
10. v	worm	n.	虫



Take a Closer

LOOK

How Soil is Formed

Rain, ice, and other natural forces¹⁶ break down rocks. Organisms¹⁷ living on the rocks die and decay.

Sand and silt18 forms.

Soil begins to form from rocks and decaying plants and animals.

As soil develops, the top level becomes deep enough to support plant roots.

11. decay	1.5	腐烂
12. rot	1/5	烂。腐烂
13. contain	ν.	包含。包括
14. clay	77.	黏土
15. solid	adj.	结实的
16. natural force		自然力
17. organism	n.	生物
18. silt	77.	泥沙

Soil's Three Layers

Layer A is topsoil. Topsoil is alive with⁵ roots⁶ and tiny⁷ living things, such as bacteria⁸, fungi⁹, and worms¹⁰. When these living things die, they decay¹¹, or rot¹². They turn into the nutrients that make the soil rich and healthy.

Layer B is the second layer. It contains¹³ a lot of clay¹⁴. Plants and animals have a difficult time getting through this hard layer.

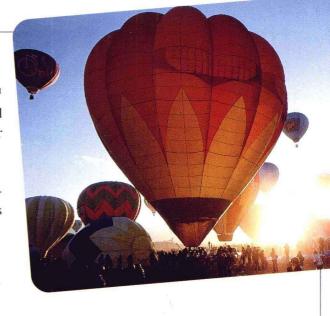
Layer C is the third layer. It is made of broken rock. At the bottom is solid¹⁵ rock that turns into the two layers above it.

Air

We all need air to breathe. Air is a mixture¹ of gases. Two of these gases are oxygen² and carbon dioxide³. It is the oxygen in the air that we need to live.

Oxygen is renewed through the oxygen-carbon dioxide cycle. The diagram below shows how oxygen in the air is renewed.

1.	mixture	H.	混合物
2.	oxygen	II.	氧
3.	carbon dioxide		二氧化碳
4.	process	11.	过程

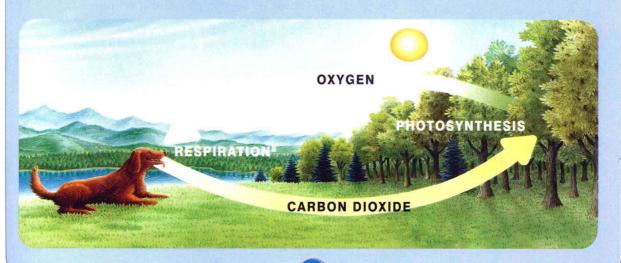


5.	photosynthesis	n.	光合作用
6.	give off		放出
7.	release	1/5	释放
8.	respiration	11.	呼吸

Take a Closer LOOK

The Oxygen-Carbon Dioxide Cycle

- Plants use light to make their own food.
 This process⁴ is called photosynthesis⁵.
- 2. During photosynthesis plants take in carbon dioxide and give off⁶ oxygen.
- 3. Oxygen is released into the air.
- 4. People and animals breathe in oxygen. They breathe out carbon dioxide.



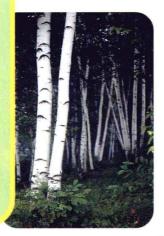


People all over the world have been celebrating⁸ Earth Day each year since 1970.



Earth Watch

People have cut down almost twothirds of the original forests⁷ on Earth to clear the land for other uses.



Long ago, most people did not worry about natural resources. The rivers, lakes, and oceans were clean. People could find plenty of rich land to farm². There seemed to be an endless³ supply of natural resources.

But today many more people live in our world. We are rapidly⁴ using up⁵ or polluting⁶ our resources. Today we need to find ways to protect or replace our resources.

1.	plenty of		充足的
2.	farm	У.	耕作
3.	endless	adj.	无穷无尽的
4.	rapidly	adv.	迅速地
5.	use up		用完
6.	pollute	V.	污染
7.	original forest		原生林
8.	celebrate	ν.	庆祝

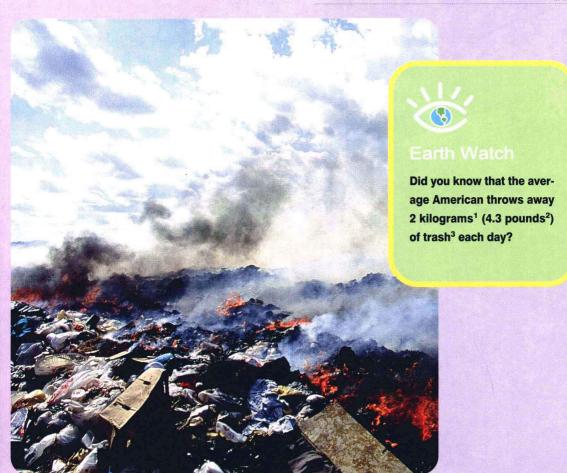


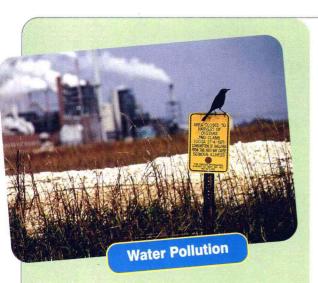
The Changing Earth

变化中的地球

People change the Earth by not taking care of its resources. We waste resources. We also pollute them. We can't drink or wash with polluted water. We can't farm land that has been polluted. We can't breathe air that has been polluted.

1.	kilogram	n. \	千克
2.	pound	n.	磅
3.	trash	n.	垃圾









How do people change or pollute natural resources?

How is water polluted?

Factories dump¹ chemicals² into rivers, lakes, and streams³.

People throw trash and garbage⁴ into the water. Farmers use pesticides⁵ and fertilizers. These chemicals run off the land into the water.

Untreated⁶ waste is dumped into the water.

Tankers⁷ have accidents and oil spills⁸ into the waters.

How is land polluted?

People litter9.

Farmers spray¹⁰ pesticides onto crops.

Waste materials, such as old cars or paints and cleaning products, are left in trash dumps. Factories have industrial accidents, such as chemical spills.

How is air polluted?

Cars, buses, and trucks burn fuels. Wastes from burning fuels pollute the air.

Homes and power plants burn coal, oil, or gas for energy.

Factories give off toxic¹¹, or poisonous¹², smoke. People use aerosol cans¹³.

1.	dump	ν .	倾倒
2.	chemical	11.	化学品
3.	stream	71.	溪流
4.	garbage	71.	垃圾
5.	pesticide	11.	杀虫剂
6.	untreated	adj.	未经处理的
7.	tanker	11.	油轮
8.	spill	Λ.	泄漏
9.	litter	14.	乱扔废弃物
10.	spray	ν.	喷
11.	toxic	adj.	有毒的
12.	poisonous	adj.	有毒的
13.	aerosol can		喷雾剂罐

People Waste Resources

People waste water, land, and air. We leave water running when we are not using it. We take long showers¹. A 5-minute shower uses 95-132 liters (25-35 gallons) of water. Think how much water you would be wasting if you took a 20-minute shower!

We waste land resources by cutting down trees without replacing them. We farm the same land for many years. If improperly² managed, these farmlands can use up nutrients in the soil. Then the land becomes barren³ and crops cannot grow on it.

We waste air by filling it with smoke. Smoking or burning fires without good ventilation⁴, or air circulation⁵, dirties⁶ the air. By not smoking, people can keep the air cleaner.

The Greenhouse Effect

In recent years scientists have become very concerned⁸ about the greenhouse effect. There are gases in the Earth's atmosphere⁹ that act like the glass in a greenhouse. They let the sunlight in, but they don't let the sun's heat out. Greenhouse gases come from burning fossil fuels¹⁰ (coal, oil) used by industries, cars, and trucks. These gases are increasing¹¹.

Most scientists are worried that as these gases increase, the Earth will get too warm. This condition¹² is called global warming¹³. If the Earth does grow warmer, the ice at the North and South poles will begin to melt¹⁴. Then our oceans will spill over low-lying¹⁵ coastal¹⁶ areas. World leaders are trying to find ways to reduce¹⁷ greenhouse gases. The diagram below shows the greenhouse effect.

1.	shower	11.	淋浴
2.	improperly	adv.	不恰当地
3.	barren	adj.	贫瘠的
4.	ventilation	11.	通风
5.	circulation	11.	循环
6.	dirty	V.	弄脏
7.	greenhouse effect		温室效应
8.	concern	ν.	担忧。关心
9.	atmosphere	11.	大气层
10.	fossil fuel		矿物燃料
11.	increase	15	增加
12.	condition	71.	情况、状态
13.	global warming		全球变暖
14.	melt	14	融化
15.	low-lying	adj.	低洼的
16.	coastal	adj.	沿海的
17.	reduce	Y.	减少

