



Lesson 31 The sculptor speaks

perception [pə'sepʃn]

n. 知觉，感知能力；洞察力；看法

perception n. 1. [U] (fml.) ability to see, hear or understand 知觉，感知能力

visual perception

our perception of reality

Though they may attain considerable accuracy in the perception of flat form, they do not make the further intellectual and emotional effort needed to comprehend form in its full spatial existence.

perception n. 2. [U] (fml.) the ability to understand the true nature of sth.
= insight 洞察力

His analysis of the problem showed great perception.

perception n. 3. [C] the way you think about sth. and your idea of what it is like 看法

My perception of the matter is that ...

the public perception of the government's performance

perceive v. 觉察到，注意到；理解

perceptible adj. 可觉察的，可感知的

perceptive adj. 敏锐的，有洞察力的



“ceive” / “cept” / “cip” / “cipate” = to take

perception “per” = through

perceive perceptible perceptive

accept “ac” = to

acceptable acceptance

deceive v. “de” = away

deception deceptive

except “ex” = out

exception exceptional

intercept “inter” = between

interceptor interception

receive “re” = back

reception receipt receptionist

anticipate “anti” = before

anticipation anticipatory

participate “part” = part

participant participation

emancipate “e” = out “man” = hand

susceptible “sus” = under

comprehend [7kɒmpri'hend]



v. 完全理解

comprehend v. understand sth. fully 完全理解

How could you possibly comprehend the difficulties of my situation?

“prehend” / “prehens” = to seize

comprehend “com” = together

comprehension n. 完全理解

comprehensive adj. 包罗万象的，全面的

apprehend “ap” = to v. 逮捕

apprehension n. 逮捕；忧虑，恐惧

apprehensive adj. 忧虑的，害怕的，不安的

reprehend “re” = back v. 批评，指责

reprehension n. 批评，指责

reprehensible adj. 应受指责的

visualize ['vɪʒuəlaɪz]

v. 设想，想象

visualize v. to form a picture of someone or something in your mind =

imagine 设想，想象

I tried to visualize the house while he was describing it.

I'm just trying to visualize how this hat would look with my new dress.

imagine



We sometimes imagine a desert island to be a sort of paradise where the sun always shines.

Imagine their dismay when they found a beautifully-cooked wallet and notes turned to ash!

picture

I can't picture the village without the old church.

We found it hard to picture him as the father of teenage sons.

form a picture of ...

It is very difficult to form a picture of life in the 6th Century because there is a lack of historical evidence.

Most of us have formed an unrealistic picture of life on a desert island.

conceive of ...

Can you conceive of a situation in which the United States would ever have to use its nuclear arsenal?

I have often tried to conceive of what those pages might contain, but of course I cannot do so because I am a prisoner of the present-day world, just as all of you are.

reminiscence [7remɪ'nɪsns]

n. 回忆，回忆录

reminiscence n. 1. [U] recalling of past events and experiences 回忆，怀



旧

And the sensitive observer of sculpture must also learn to feel shape simply as shape, not as description or reminiscence.

reminiscences n. [pl] spoken or written account of one's remembered experiences 回忆，回忆录

The novel contains endless reminiscences *of/about* the author's youth.

reminisce v. to talk or think about pleasant events in your past 缅怀往事，话旧

reminisce about ...

We spent a happy evening reminiscing about the past.

memoirs n. [pl.] a book by someone important and famous in which they write about their life and experiences 回忆录，自传

Lady Thatcher had just published her memoirs.

memo / memorandum n. a short official note to another person in the same company or organization 备忘录

I sent him a memo reminding him about the meeting.

Appreciation of sculpture depends upon the ability *to respond to form in there dimensions*.

appreciation of ... 欣赏.....

appreciation of poetry and literature

in appreciation of ... 以感谢.....



I sent him a gift in appreciation of his help.

appreciation of ... 理解.....

To get a full appreciation of what this means we must turn first to some recent human inventions.

That is perhaps why sculpture has been described as the most difficult of all arts; certainly it is more difficult *than the arts which involve appreciation of flat forms, shape in only two dimensions.*

the most difficult of all arts

➔ the most difficult art of all

the greatest of all Western stars

➔ the greatest Western star of all

the most difficult of all obstacles

➔ the most difficult obstacle of all

the most valuable find of all

➔ the most valuable of all finds

the most frightening thing of all

➔ the most frightening of all things

the deepest holes of all

➔ the deepest of all holes

involve v. if a situation, an event or an activity involves sth, that thing is an important or necessary part or result of it 需要.....



involve (doing) sth.

Community service can involve anything from gardening to helping in old people's homes.

Jane was on a diet which involved eating nothing but fruit.

entail (doing) sth.

This job entails a lot of hard work.

My job entailed being on call twenty-four hours a day.

Many more people are 'form-blind' than colour-blind.

many / far more + 复数名词

much / far more + 不可数名词

many / far more people

much / far more money

The child learning to see, first distinguishes only two-dimensional shape; it cannot judge distances, depths.

Later, for its personal safety and practical needs, it has to develop (partly by means of touch) the ability to judge roughly three-dimensional distances.

But having satisfied the requirements of practical necessity, most people go no further.

go further 更进一步

I can offer you 50, but I can't go any further than that.



Whaling in Australia was stopped. But the Australian government went further and proposed a global ban.

Though they may attain considerable accuracy in the perception of flat form, they do not make the further intellectual and emotional effort needed to comprehend form in its full spatial existence.

spatial adj. relating to the size, shape, and position of things, and the relation of objects to each other in space 空间的

changes taking place in the spatial distribution of the population

the development of a child's spatial awareness

This is the oldest Hebrew manuscript in existence.

造句：尽管人们可以相当精确地感知金钱的力量，但是他们之中的大多数在智力上和情感上却没有进一步努力去理解人生的意义。

Though people may attain considerable accuracy in the perception of the power of money, most of them do not make the further intellectual and emotional effort needed to comprehend the meaning of life.

造句：尽管我们可以相当精确地衡量物质商品的价值，但是我们之中多数人在智力和情感上却没有进一步努力去估算人们为我们做的服务的真正价值。

Though it may be possible to measure the value of material goods in terms of money, it is extremely difficult to estimate the true value of the services which people perform for us.



造句：尽管我们可以相当精确地衡量物质商品的价值，但是我们之中多数人在智力和情感上却没有进一步努力去估算人们为我们做的服务的真正价值。

Though we may attain considerable accuracy in the measurement of the value of material goods, most of us do not make the further intellectual and emotional effort needed to estimate the true value of the services which people perform for us.

This is what the sculptor must do.

He must strive continually to think of, *and use*, form in its full spatial completeness.

strive v. try very hard to obtain or achieve sth. (为获得或实现某事物)

努力，奋斗

strive to do sth.

We strive to be accurate, but some mistakes are inevitable.

strive for ...

women who were striving for more freedom

think of sth. = imagine sth. 想像某事物

Just think of the expense!

He gets the solid shape, *as it were*, inside his head—he thinks of it, *whatever its size*, as if he were holding it completely enclosed in the hollow of his hand.



as it were / so to speak 好像

They will be able, as it were, to see and hear us in action.

It is said that the nerve poison is the more primitive of the two, that the blood poison is, so to speak, a newer product from an improved formula.

whatever 引导让步状语从句时, 常省略 be 动词。

He gets the solid shape, as it were, inside his head-he thinks of it, whatever its size (is), as if he were holding it completely enclosed in the hollow of his hand.

Whatever the source of noise (is), one thing is certain: silence, it seems, has become a golden memory.

After all, whatever her faults (are), she is your mother.

The country is always beautiful whatever the season (is).

It is as if a single unimportant event set up a chain of reactions.

It's as if they were in some sense cosmic beings in violent an lovely contrast with us suburban creatures.

..., but I do not turn for protection to dreary clichés about respect of elders, as if mere age were a reason for respect.

Gesticulating wildly, the man acted as if he found my offer outrageous, but he eventually reduced the price to £10.

Speculations about its nature have been going on for literally thousands of years, and one odd finding that makes the problem puzzling is that it



looks very much as if sleeping is not simply a matter of giving the body a rest.

hollow n. a place in something that is at a slightly lower level than its surface 凹陷处

The dog found a hollow in the ground to hide in from the wind.

She held the small bird in the hollow of her hand.

He mentally visualizes a complex form *from all round* itself; he knows while he looks at one side what the other side is like; he identifies himself with its centre of gravity, its mass, its weight; he realizes its volume, *as the space that the shape displaces in the air.*

Towards midday, a girl heard a muffled cry coming from behind one of the walls.

I took my watch from under the pillow.

We didn't meet until after the show.

The weather has been fine except in the north.

identify ... with ... 把.....与.....联系起来, 把.....和.....等同起来

One cannot identify happiness with wealth.

Never identify opinions with facts.

He refused to identify himself with the new political party.

The politician is too closely identified with the former government to become a minister in ours.



displace v. to take the place of sb. or sth. 代替，取代

Gradually factory workers have been displaced by machines.

And the sensitive observer of sculpture must also learn to feel shape simply as shape, not as description or reminiscence.

He must, *for example*, perceive an egg as a simple single solid shape, *quite apart from its significance as food, or from the literary idea that it will become a bird.*

perceive ... as ... 把.....当做是.....，认为.....是.....

She did not perceive herself as disabled.

Computers were often perceived as a threat.

Even as a young woman she had been perceived as a future chief executive.

apart from 1. except for 除了.....

I've finished apart from the last question.

apart from 2. besides 除了.....（还.....）

Apart from their house in London, they also have a villa in Spain.

apart from 3. separate from 脱离开.....

There can be no knowledge apart from practice.

You can hardly consider the one apart from the other.

And so with solids such as a shell, a nut, a plum, a pear, a tadpole, a mushroom, a mountain peak, a kidney, a carrot, a tree-trunk, a bird, a bud,



a lark, a ladybird, a bulrush, a bone.

And he must also feel shape simply as shape, not as description or reminiscence with solids such as a shell, a nut, a plum, a pear, a tadpole, a mushroom, a mountain peak, a kidney, a carrot, a tree-trunk, a bird, a bud, a lark, a ladybird, a bulrush, a bone.

From these he can go on to appreciate more complex forms *of combinations of several forms*.

go on to do sth. 继续做下一件事

go on with sth. 继续做同一件事

go on doing sth. 持续做某事

What proportion of people who are HIV-positive go on to develop AIDS?

Please go on with what you're doing and don't let us interrupt you.

In many ways, this is unfortunate for the poor actors who are required to go on repeating the same lines night after night.

Lesson 32 Galileo reborn

controversy ['kɒntɹəvɜːsi]

n. 争论，论战

controversy n. a serious argument about something that involves many people and continues for a long time 很多人参与的持久而激烈的论战

Euthanasia continues to be an issue of much controversy.



Reports in today's newspapers have added fuel to the controversy.

The movie has sparked / provoked / stirred a controversy over homosexuality.

controversial

a controversial issue / topic

He is a highly controversial figure in the art world.

debate

International Varsity Debate

dispute

The children's dispute ended in a fight.

be beyond dispute

China's claims of sovereignty over the Diaoyu Islands are beyond dispute.

discord

Money is the biggest cause of discord in marriage.

be in conflict with ...

Union leaders are still in conflict with management.

clash

a clash of swords

violent clashes between police and demonstrators



personality / culture clash

collision

The play represents the collision of three generations.

dust [dʌst]

n. 尘土; 骚乱, 混乱

Ashes to ashes and dust to dust.

For dust thou art, and unto dust thou shalt return.

gather / collect dust

My guitar has just been gathering dust since I injured my hand.

It will take some time for the political dust to settle in that country.

The scientific dust has long since settled.

After hearing your whole history with Mike, it doesn't take a genius to figure out what the problem is. What is it? You. You don't want to be happy. You're a drama junkie. When there is no drama, you create it.

You sleep with your ex-husband, you cheat on a coma victim and now you're hiking up a mountain after a guy who has no idea you're coming.

Who knows? Maybe this guy will take you back. But once the dust settles, you'll kick up some more because you don't know how to Just Be Happy.

perspective

[pə'spektɪv]



n. 透视法；视角，角度，看法

perspective on ...

The book deals with a woman's perspective on revolution.

from a historical / global / financial / Marxist perspective

The problem needs to be looked at from a historical perspective.

angle / standpoint

Try looking at the problem from a different angle.

I think from a political standpoint it was a particularly bad idea.

familiarity [fəˈmɪliˈærəti]

n. 熟悉，通晓，精通

Ellen's familiarity with music is astonishing.

Familiarity breeds contempt.

— Aesop

sb. be familiar with sth.

sth. be familiar to sb.

Many readers are familiar with the name Harry Potter.

The name Harry Potter is familiar to many readers.

acquaintance

My acquaintance with Spanish literature is rather limited.



I'm afraid I have only a passing acquaintance with Baroque music.

be acquainted with sb. / sth.

I'm not acquainted with the lady.

She is well acquainted with classical literature.

culpable ['kʌlpəbl]

adj. 应受谴责的, 应受处罚的

culpable negligence

be culpable for ...

We are partly culpable for the state of events.

hold sb. culpable

He was held culpable for what had happened.

culpability

After the accident, the company refused to accept culpability.

be responsible for ...

He is responsible for the accident.

hold sb. responsible

He held me responsible whenever anything went wrong.

responsibility

Terrorists have claimed responsibility for the bomb attack.

Galileo (1564-1642)



Italian physicist and astronomer, who initiated the scientific revolution that flowered in the work of the English physicist Sir Isaac Newton.

His main contributions were, in astronomy, the use of the telescope in observation and the discovery of sunspots, lunar mountains and valleys, the four largest satellites of Jupiter.

He discovered that the planets moved around the sun, which confirmed Copernicus' theory and overthrew Ptolemaic system of astronomy.

In physics, he discovered the laws of falling bodies. In the history of culture, Galileo stands as a symbol of the battle against authority.

He died in 1642. At the same year, the great physicist Isaac Newton was born.

As it happened, he died on January 8, 1642, and 300 years later, that is January 8, 1942, another great theoretical physicist Stephen Hawking was born.

In his own lifetime Galileo was the centre of violent controversy; but the scientific dust has long since settled, and today we can see even his famous clash with the Inquisition in something like its proper perspective.

in / during one's lifetime

He achieved a lot in his short lifetime.

During her lifetime she had witnessed two world wars.

All this will not be finished in the first one hundred days. Nor will it be



finished in the first one thousand days; nor in the life of this Administration; nor even perhaps in our lifetime on this planet. But let us begin.

sth. of a lifetime / one's life

the chance / experience / vacation of a lifetime / one's life

—Did you enjoy your vacation in Paris?

—It was the vacation of a lifetime / my life!

Galileo was the centre of violent controversy.

➔ Galileo was a highly controversial figure.

long since ... 早已.....， 早就.....

Spring flowers are long since gone. Summer's bloom hangs limp on every terrace.

— Louise Seymour Jones

The Immortal has long since gone with his yellow crane,

Only the Yellow Crane Tower can now be seen.

No one has been sure if the bird would ever return,

Over thousands of years the white clouds remain.

I've long since forgotten any Latin I ever learned.

I've long since forgiven what she did.

The people who built the temple have long since vanished.

clash n. conflict; collision



the Inquisition / the Holy Office

a Roman Catholic organization in the past whose aim was to find and punish people who had unacceptable beliefs

something like ...

They say creating a work of art is something like giving birth.

The house looks something like a medieval fortress.

Something like 50,000 homes are without power.

One authority on spiders made a census of the spiders in grass field in the south of England, and he estimated that there were more than 2,250,000 in one acre; that is something like 6,000,000 spiders of different kinds on a football pitch.

something between ... and ...

The look on Max's face was something between puzzlement and anger.

His income is something between \$30,000 and \$35,000 a year.

Galileo maintained that the earth revolved around the sun, disputing the belief held by the Roman Catholic church that the earth was the center of the universe.

He refused to obey orders from Rome to cease discussions of his theories and was sentenced to life imprisonment. It was not until 1984 that a papal commission acknowledged that the church was wrong.

But, in contrast, it is only in modern times that Galileo has become a



problem child for historians of science.

in / by contrast

in / by comparison

An old watch, by contrast, becomes so worn and unreliable that it eventually is not worth mending.

It is not until modern times that ...

a problem child

a child whose behavior is bad

a child whose behavior causes problems for other people

the view of Galileo

Galileo's view

my view of the situation

delightfully

delightedly

I delightedly accepted the gift.

He was, above all, a man who experimented: who despised the prejudices and book learning of the Aristotelians, who put his questions to nature instead of to the ancients, and who drew his conclusions fearlessly.

一个人能力有大小，但只要有这点精神，就是一个高尚的人，一个纯粹的人，一个有道德的人，一个脱离了低级趣味的人，一个有益于人民的人。



prejudice

Pride and Prejudice

prejudice against women

bias against ...

bias in favor of / toward(s) ...

partiality to / toward(s) ...

be prejudiced against ...

be biased against ...

be biased in favor of / toward(s) ...

be partial to / toward(s) ...

Aristotle

Greek philosopher and scientist

He shares with Plato and Socrates the distinction of being the most famous of ancient philosophers. He is also the tutor of Alexander the Great.

He is the author of works on logic, metaphysics, ethics, natural science, politics, and poetics. And he profoundly influenced western thought.

Aristotle proposed a finite, spherical universe, with the earth as its center.

He also held that heavier bodies fall faster than lighter ones.

put questions to ...

He picked up the gun from behind the counter.



The weather has been fine except in the north.

He studies in the evening instead of during the day.

More and more people live in towns and cities instead of in villages.

Giordano Bruno

A man's ability may be great or small, but if he has this spirit, he is a man who is noble-minded, who is pure, who is of moral integrity, who is above vulgar interests, and who is of value to the people.

He had been the first to turn a telescope to the sky, and he had seen there evidence enough to overthrow Aristotle and Ptolemy together.

Ptolemy

Ancient Greek astronomer, mathematician, and geographer

He based his astronomy on the belief that all heavenly bodies revolve around the earth.

His astronomical theories and explanations dominated scientific thought until the 16th century when Copernicus, a Polish astronomer, advanced the theory the earth and other planets revolve around the sun, disrupting the Ptolemaic astronomy.

He was the man who climbed the Leaning Tower of Pisa and dropped various weights from the top, who rolled balls down inclined planes, and then generalized the results of his many experiments into the famous law of free fall.



Leaning Tower of Pisa

Started in 1173, the Leaning Tower of Pisa in Italy is an example of Romanesque architecture. It is actually the bell tower of the cathedral of Pisa.

Legend has it that Galileo once carried out experiments at the leaning tower which showed that the velocity of moving bodies of the same composition, but of different weights, do not attain the proportion of their weights as Aristotle decreed, but move with the same velocity.

inclined plane

generalize sth. into sth.

But a closer study of the evidence, supported *by a deeper sense of the period*, and particularly *by a new consciousness of the philosophical undercurrents in the scientific revolution*, has profoundly modified this view of Galileo.

be supported by ...

be based on ...

..., based on a deeper sense of the period.

sense n. understanding / consciousness

profoundly adv. deeply; extremely

She was profoundly influenced by her mother.

modify



The mediator attempted to get both sides to modify their position.

Today, although the old Galileo lives on in many popular writings, among historians of science a new and more sophisticated picture has emerged.

Where do the knives live in your kitchen?

Can you form a picture of what I described to you?

Most of us have formed an unrealistic picture of life on a desert island.

opponent n. adversary; antagonist

His telescopic observations are justly immortal; they aroused great interest at the time, they had important theoretical consequences, and they provided a striking demonstration of the potentialities hidden in instruments and apparatus.

a just reward / punishment

ecological consequences

It is true that China is still a developing country, but she is full of potential / potentialities.

laboratory apparatus

a piece of apparatus

But can we blame those who looked and failed to see what Galileo saw, *if we remember that to use a telescope at the limit of its powers calls for long experience and intimate familiarity with one's instrument?*

a 200-power microscope



a 32-power telescope

call for

This sort of work calls for a high level of concentration.

The quality is variable, so careful selection is called for.

In this era of rapid social and technological change leading to increasing life complexity and psychological displacement, unforeseen and kaleidoscopic challenges facing persons in most professions and academic fields call for a balance *in which there are both imagination and knowledge*.

need / require / demand

What are the qualities that are needed for the job?

A lot of patience is required to look after a disabled child.

This is a complex task and demands a high level of skill.

it takes sth. to do sth.

It takes stamina to be a long-distance runner.

It takes a lot of patience to look after a disabled child.

Anyone can be passionate, but it takes real lovers to be silly.

— Rose Franken

Any intelligent fool can make things bigger, more complex, and more violent. It takes a touch of genius and a lot of courage to move in the opposite direction.



— Albert Einstein

entail sth. / doing

entail sb. doing

The job entails a lot of hard work.

The journey entails changing trains twice.

I'll never accept parole because that entails me accepting guilt.

necessitate sth.

A prolonged drought necessitated the introduction of water rationing.

But we cannot blame those who ...

O, wind, if winter comes, can spring be far behind?

‘Ode to the West Wind’

P. B. Shelley

We often speak of tramps with contempt and put them in the same class as beggars, but how many of us can honestly say that we have not felt a little envious of their simple way of life and their freedom from care?

Could any spectacle, for instance, be more grimly whimsical than that of gunners using science to shatter men's bodies while, close at hand, surgeons use it to restore them?

They tell us, sir, that we are weak; unable to cope with so formidable an adversary. But when shall we be stronger? Will it be the next week, or the next year? Will it be when we are totally disarmed, and when a British



guard shall be stationed in every house? Shall we gather strength by irresolution and inaction? Shall we acquire the means of effectual resistance by lying supinely on our backs and hugging the delusive phantom of hope, until our enemies shall have bound us hand and foot?

—Patrick Henry, *‘Give Me Liberty Or Give Me Death’*

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‘Give Me Liberty Or Give Me Death’

— Patrick Henry, March 23, 1775

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phantom of hope, until our enemies shall have bound us hand and foot?

—Patrick Henry, ‘*Give Me Liberty Or Give Me Death*’

Was the philosopher who refused to look through Galileo's telescope more culpable than those who alleged *that the spiral nebulae observed with Lord Rosse's great telescope in the eighteen-forties were scratches left by the grinder?*

allege

He alleged that they had hired an assassin to dispose of him.

We can perhaps forgive those who said the moons of Jupiter were produced by Galileo's spyglass *if we recall that in his day, as for centuries before, curved glass was the popular contrivance for producing not truth but illusion, untruth; and if a single curved glass would distort nature, how much more would a pair of them?*

..., as curved glass was the popular contrivance for producing not truth but illusion, untruth for centuries before, curved glass was the popular contrivance for producing not truth but illusion, untruth;

On the occasions when they have pushed to shore an unconscious human being they have much more likely done it out of curiosity or for sport, as in riding the bow waves of a ship.

On the occasions when they have pushed to shore an unconscious human being they have much more likely done it out of curiosity or for sport, as



they have done it out of curiosity or for sport in riding the bow waves of a ship.

It is almost always due to some very special circumstances that traces of land animals survive, as by falling into inaccessible caves, or into an ice crevasse, like the Siberian mammoths, when the whole animal is sometimes preserved, as in a refrigerator.

It is almost always due to some very special circumstances that traces of land animals survive, as traces of land animals survive by falling into inaccessible caves, or into an ice crevasse, ...

... like the Siberian mammoths, when the whole animal is sometimes preserved, as the whole animal is preserved in a refrigerator.

curve

curved

curved glass

convex lens

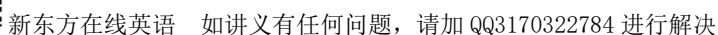
concave lens

Lesson 33 Education

adverse ['ædvɜ:s]

adj. 不利的，不好的

adverse effects



advocate He advocates the return of capital punishment.



defendant [dɪ'fendənt]

n. 被告人

defendant

plaintiff

prosecutor

prosecute sb.

judge

witness

jury

attorney

solicitor

barrister

lawyer

testimony

affidavit

outlook ['aʊtlʊk]

n. 总的态度, 观点; 展望, 前景

outlook on life

world outlook

communist world outlook

spiritual / mental outlook

attitude to / towards sth.

perspective on ...

from sb's perspective ✓

from sb's viewpoint ✓

from sb's standpoint ✓



from sb's point of view ✓

in sb.'s opinion / view ✓

according to sb. ✓

from sb.'s opinion / view X

according to sb.'s opinion / view X

according to me X

The outlook for the economy is still uncertain.

The outlook for tomorrow is sunny and mild.

prospect

The prospects for employment in the technology sector are especially good.

capacity [kə'pæsəti]

n. 容量，承受量；能力

The auditorium has a seating capacity of 2,000.

The elevator has a capacity of 1,000 kilos.

the capacity to read and write

He has enormous capacity for work.

ability to do sth.

capability to do sth.

capability of doing sth.



gift talent aptitude faculty

democratic [7demə'krætɪk]

adj. 民主的

democratic rights

democratic elections

a democratic government

the Democratic Party

democracy

democrat

republican

republic

monarchy

monarch

constitutional monarchy

autocracy

autocratic

autocrat

compulsory [kəm'pʌlsəri]

adj. 有义务的，必须做的

a compulsory course

an elective / optional course

the 9-year compulsory education / schooling / school attendance



compel sb. to do

President Nixon was compelled to resign.

compulsive

compulsive gambling

a compulsive gambler / liar

compelling

a compelling novel / story

oblige sb. to do

obligatory

an obligatory course

obligatory military service

voluntary

voluntary donations

voluntary early retirement

hamper ['hæmpə(r)]

v. 妨碍

hamper / hinder / impede

Social unrest will ~ economic development.

Higher interest rates could ~ economic growth.

hindrance / impediment



The higher rates have been a hindrance to economic recovery.

The main impediment to growth was a lack of capital.

a key word / issue / factor

Development is one of the key words of our time.

vital crucial essential critical

We're at a critical time in our history.

momentous

a momentous decision / occasion

be of paramount importance to ...

Passenger safety is of paramount importance to us.

be uppermost in one's mind

Although I'm here in Beijing, my family back in my hometown is always uppermost in my mind.

A man without an education, many of us believe, is an unfortunate victim of adverse circumstances, deprived of one of the greatest twentieth-century opportunities.

A man is a victim.

Many of us believe that a man without an education is an unfortunate victim of ...

A man without an education, many of us believe, is an unfortunate victim of ...



You may wonder why spiders are our friends.

Why, you may wonder, should spiders be our friends?

It seems that dogs love to chew up money!

Dogs, it seems, love to chew up money!

Many of us believe that economic development is of paramount importance to china.

Economic development, many of us believe, is of paramount importance to china.

Convinced of the importance of education, modern states 'invest' in institutions of learning *to get back 'interest' in the form of a large group of enlightened young men and women who are potential leaders.*

convince sb. of sth.

be convinced of ...

invest in ...

invest ... in ...

I invested time and energy in learning English.

invest ... with ...

invest sb. with legal rights

His life was invested with a new significance.

... nor should we seek to invest with significance that which we cannot grasp.



financial / educational / charitable institution

institute

the institute for the destitute

agricultural / aviation institute

MIT: Massachusetts Institute of Technology

enlightened adj. free from prejudice, ignorance, superstition, etc. 开明的

enlightened attitude / policy

enlighten

Education, with its cycles of instruction so carefully worked out,

*punctuated by textbooks—those purchasable wells of wisdom—*what

would civilization be like without its benefits?

work out 制定出, 策划出

work out a plan / program

punctuate

punctuate the article

a speech punctuated by applause

He made gestures to punctuate his remarks.

emphasize / stress ...

lay / put emphasis / stress on ...

Schools here lay / put great emphasis on mathematics.

In his speech, he laid / put particular stress on the freedom of the press.



We would lay less stress on 'facts and figures' and more on a good memory, on applied psychology, and on the capacity of a man to get along with his fellow-citizens.

A science reporter, he has a wide range of knowledge.

Bank loan or no bank loan, we'll buy the house.

Master in his own house, he has little idea of when to say boo to a maître d'hôtel.

What would civilization be like if there were not its benefits?

If + S. + did / were ..., S. + would / should / could / might + do ...

Without it we could not make a living.

If we didn't have it we could not make a living.

There would be no living things without air.

There would be no living things if there were no air.

In his position, I would commit suicide.

If I were in his position, I would commit suicide.

How would civilization be without its benefits?

Education, what would civilization be like without its benefits?

God Almighty, where are you when the world is racked by war?

造句: 影响遍及全球, 并且被广泛的应用 (a wide range of applications)
所强化的因特网技术, 如果没有它带来的好处的话, 我们的生活将会
是什么样子呢?



Internet technology, with its influence spreading to every corner of the world, punctuated by a wide range of applications, what would our lives be like without its benefits?

So much is certain: that we would have doctors and preachers, lawyers and defendants, marriages and births—but but our spiritual outlook would be different.

We would lay less stress on 'facts and figures' and more on a good memory, on applied psychology, and on the capacity of a man to get along with his fellow citizens.

We would lay less stress on 'facts and figures' and (lay) more (stress) on a good memory, (lay more stress) on applied psychology, and (lay more stress) on the capacity of a man to get along with his fellow-citizens.

It has been said that everyone lives by selling something. In the light of this statement, teachers live by selling knowledge, philosophers (live) by selling wisdom and priests (live) by selling spiritual comfort.

Carlyle was entirely ignorant of what the bottle in his pocket contained, (Carlyle was entirely ignorant) of the nature of the illness from which his friend was suffering, and (Carlyle was entirely ignorant) of what had previously been wrong with his wife, but a medicine ...

For in a university, science majors look down on humanities majors, foreign language majors (look down) on Chinese majors, Chinese



majors (look down) on philosophy majors, philosophy majors (look down) on sociology majors, and sociology majors (look down) on education majors. Since education majors have no one to look down on, they can only despise the professors in their own department.

attach importance to ...

We would attach less importance to 'facts and figures' and more to a good memory, to applied psychology, and to the capacity of a man to get along with his fellow-citizens.

If our educational system were fashioned after its bookless past we would have the most democratic form of 'college' imaginable.

fashion

He fashioned a toy gun from a piece of wood.

fashion ... after ...

If you fashion your character after your brother's, you'll get along with your classmates.

He has to deduce what he can from the few scanty clues available.

the most civilized society imaginable

the most shocking spectacle conceivable

the most effectual measure possible

the most talented person available

Among tribal people all knowledge inherited by tradition is shared by all;



it is taught to every member of the tribe so that in this respect everybody is equally equipped for life.

In some moods, nature shares it.

share sth. with sb.

share (in) sth.

She shares (in) my troubles as well as my joys.

This shows how long it was before we deemed it necessary to make sure that all our children could share in the knowledge accumulated by the 'happy few' during the past centuries.

in this respect

in this aspect

in this way

from this angle

from this perspective

equality in terms of receiving knowledge

It is the ideal condition of the 'equal start' which only our most progressive forms of modern education try to regain.

progressive

a progressive political party

progressive ideas

aggressive



regressive

regain

recover

restore

one's health

regain

one's sight

restore

one's consciousness

recover

one's balance

one's composure

In primitive cultures the obligation to seek and to receive the traditional instruction is binding to all.

have an obligation to do sth.

be under an obligation to do sth.

have no obligation to do sth.

be under no obligation to do sth.

be not under any obligation to do sth.

The firm has no obligation / is under no obligation / isn't under any obligation to offer you a job.

binding

a legally binding document

bind

The thief is bound to a tree.

bind sb. to do sth.



The Kyoto Protocol binds each country to reduce the emission of greenhouse gases.

There are no 'illiterates'—if the term can be applied to peoples without a script—while our own compulsory school attendance became law in Germany in 1642, in France in 1806, and in England in 1876, and is still non-existent in a number of 'civilized' nations.

script

Arab script

compulsory school attendance / education / schooling

This shows how long it was *before we deemed it necessary to make sure [that all our children could share in the knowledge (accumulated by the 'happy few' during the past centuries)]*.

It will be a long time before we meet again.

Looking at his watch, he saw that it was one o'clock, but the bell struck thirteen times before it stopped.

I hadn't waited long before he came.

I shaved before I went to the party.

Alfred stayed in the camp a week before he returned to Athelney.

I'll die before I give in.

..., and these will ply the short wings with such irresistible power that they can bore for long distances through an opposing gale before



exhaustion follows.

The plane had been planting seed for nearly a month when it began to rain.

He had travelled only seven miles across the Channel when his engine failed and he was forced to land on the sea.

Shrugging my shoulders, I began to walk away when, a moment later, he ran after me and thrust the pen into my hands.

Stone does not decay, and so the tools of long ago have remained when even the bones of the men who made them have disappeared without trace.

Why do you walk when you have a car?

the few

A government should serve the many, not the few.

the happy few

the privileged few

The 19th Amendment to the Constitution of the US shows how long it was before the Americans deemed it necessary to make sure that women could share in the right to vote taken by the privileged few during the past few centuries.

a / the matter / question of ...

.....的事儿/问题



It's only a matter of time.

It's a matter of personal taste.

It's a matter of preference.

It's a matter of interest.

It's a matter of life and death.

I can't take the money. It's a matter of principle.

... it looks very much as if sleeping is not simply a matter of giving the body a rest.

These are partly a matter of personal circumstances, partly a matter of psychology.

a question of pride

She is so talented that her success is only a question of time.

... but as soon as the question of prestige arises, ...

monetary policy

monetary unit

be entitled to sth.

be entitled to do sth.

All are entitled to receive equal education.

There is none of the hurry which, in our society, often hampers the full development of a growing personality.

There, a child grows up under the ever-present attention of his parents;



therefore the jungles and the savannahs know of no 'juvenile delinquency'.

the ever-present threat

We have to ask ourselves very seriously what will happen if this twofold use of knowledge, with its *ever-increasing* power, continues.

the ever-changing world

the ever-growing knowledge

the ever-developing economy

the ever-expanding market

the ever-deepening reform

the ever-dwindling resources

the concrete jungle

the law of the jungle

know of / about

learn of / about

hear of / about

Verrazano, an Italian about whom little is known, sailed into New York Harbour in 1524 and named it Angouleme.

The 1980s witnessed enormous growth in the financial sector.

A gentle breeze caressed my cheeks and soothed my heart.

No necessity of making a living away from home results in neglect of



children, and no father is confronted with his inability to 'buy' an education for his child.

No money buys health.

No two sorts of birds practise quite the same sort of flight; the varieties are infinite; but two classes may be roughly seen.

be confronted / faced with ...

Lesson 34 Adolescence

adolescence [7ædə'lesns]

n. 青春期

adolescence

adolescent

teenager

juvenile

juvenile delinquency

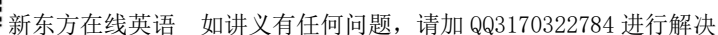
juvenile delinquent

slur [slɜ:(r)]

n.& v. 诋毁，诽谤，中伤

slur n. a remark that is intended to insult someone or damage their reputation 诋毁，诽谤，中伤

regard sth. as a slur on ...



Let every nation know, whether it wishes us well or ill, that we

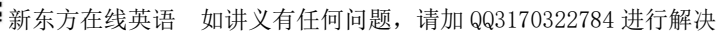


shall pay any price, bear any burden, meet any hardship, support any friend, oppose any foe, to assure the survival and the success of liberty. This much we pledge—and more. To those old allies whose cultural and spiritual origins we share, we pledge the loyalty of faithful friends. United there is little we cannot do in a host of cooperative ventures. Divided there is little we can do—for we dare not meet a powerful challenge at odds and split asunder.

Let every nation know, whether it wishes us well or ill, that we shall pay any price, bear any burden, meet any hardship, support any friend, oppose any foe, to assure the survival and the success of liberty. This much we pledge—and more.

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evil wicked a wicked plot



malicious

a malicious look in her eyes

vicious

the sheriff made suspect by vicious gossip

a vicious circle

a virtuous circle

malignant a malignant slander

a malignant tumor a benign tumor

disillusionment

[7dɪsɪ'lu:ʒnmənt]

n. 幻灭感

illusion

be / live under the illusion that ...

Even he still lives under the illusion that country life is somehow superior to town life.

delusion

be / live under the delusion that ...

The sick man is under the delusion that he is Napoleon.

The worst thing about the do-it-yourself game is that sometimes even men live under the delusion that they can do anything, even when they



have been repeatedly proved wrong.

disillusion

be disillusioned with / by...

Voters are disillusioned with / by the democratic process.

be (bitterly) disappointed with / by ...

be disenchanted with ...

After three divorces he became disenchanted with married life.

feel let down let sb. Down

Hey, Jude! Don't let me down.

You have found her, now go and get her.

Remember, to let her into your heart.

Then you can start to make it better.

disillusionment

There is increasing disillusionment with the government.

infallibility

[ɪnˈfæləˈbɪləti]

n. 一贯正确

Catholics are required to believe in the infallibility of the Pope.

infallible



Even experts are not infallible.

fallible

All human beings are fallible.

To err is human,
to forgive divine.

凡人多舛误，
唯神能见宥。

— Alexander Pope

fallacy

fallacious

fallacious reasoning

falsify

fault

faultless

flaw

flawless

sincerity [sɪn'serəti]

n. 真诚，诚挚

sincerity

serenity

hypocrisy

in all sincerity

in all honesty

in all frankness

in all eagerness



in all probability / likelihood

in all seriousness

History does not relate whether his friend accepted his medical help, but in all probability he did.

造句: 刘备非常诚挚而且非常渴望地三顾 (make a call on sb. / at some place) 茅庐 (the thatched cottage) 请 (solicit) 诸葛亮出山辅佐。

Liu Bei made three personal calls at the thatched cottage to solicit Zhuge Liang's help in all sincerity and eagerness.

cow [kəʊ]

v. 恐吓, 威胁

cow coward cowardice

cowardly / chicken

cow sb. into sth. / doing

The protesters were cowed into submission by the army.

He cowed the witness into keeping quiet.

intimidate sb. into sth. / doing.

intimidation

intimation

imitation

bully sb. into sth. / doing



The strikers were bullied into dropping their demands.

He was bullied by an older boy at school.

school bullies

Parents are often upset when their children praise the homes of their friends and regard it as a slur on their own cooking, or cleaning, or furniture, and often are foolish enough to let the adolescents see that they are annoyed.

upset adj. unhappy, worried or angry

Don't upset the apple cart.

regard ... as a slur on ...

regard ... as a slander on ...

be ... enough to do sth.

be so ... as to do sth.

... and are so foolish as to let the adolescents see that they are annoyed.

be ... enough that ...

be so ... that ...

Although negotiators are optimistic, the details are complex enough that they may be hard-pressed to get a deal at all.

annoy

annoyed

annoying



accuse sb. of sth.

Dimitri immediately went to Aleko's house and angrily accused him of stealing the lamb.

blame

blame sb. for sth.

blame sth. on sb.

They blamed George for the failure.

They blamed the failure on George.

censure sb. for sth.

Ministers were censured for their lack of decisiveness during the crisis.

condemn / denounce

The international community condemned / denounced suicide bombings against civilians.

condemn ... for / as ...

The movie was condemned for its sexism.

The terrorist attack was condemned as an act of barbarism and cowardice.

scold sb. for sth.

His mother scolded him for breaking her favorite vase.

rebuke / reprimand sb. for sth.

I was rebuked by my manager for being late.

The manager was most apologetic and reprimanded the assistant severely.



admonish sb. for sth.

The doctor admonished him for too much drinking.

make a remark about / on ...

Such a loss of dignity and descent into childish behaviour on the part of the adults deeply shocks the adolescents, and makes them resolve that in future they will not talk to their parents about the places or people they visit.

her gradual descent into alcoholism

His descent into crime was rapid.

descend to + n. / doing

descend to fraud

descend to abuse

descend to writing anonymous letters

Other people may gossip, but don't descend to their level.

on the part of sb. / on sb.'s part

由某人作出的

It was a mistake on my part.

It was a mistake on the part of the authorities.

There is a unanimous demand on the part of the parents for a cut in tuition.

It was not a matter of choice for the traveler or merely a charitable



impulse on the part of the settlers. It reflected the harshness of daily life: if you didn't take in the stranger and take care of him, there was no one else who would. And someday, remember, you might be in the same situation.

The pursuit of leisure on the part of the employees will certainly not _____ their prospects of promotion.

[A] spur [B] further

[C] induce [D] reinforce

Teachers' salaries should be based on their students' academic performance.

Write a response in which you discuss the extent to which you agree or disagree with the claim. In developing and supporting your position, be sure to address the most compelling reasons and/or examples that could be used to challenge your position.

I agree with the speaker that it is sometimes necessary and even desirable to relate students' academic performance to their teachers' salaries. A contrary view may be condemned as irresponsibility on the part of schools' administrators for students. Nevertheless, teachers' performance is not always the main determinant of their students' academic success and a rigid, indiscriminate wage policy may discourage teachers and end up lowering their students' grades.



for one's part 对某人而言

For my part, I prefer living in the city.

Napoleon's army was weakened and the British, for their part, were eager to attack.

in part = partly; to some degree 部分地, 某种程度上

The accidents were due in part to the bad weather.

When we use a phrase like 'it serves him right', we are, in part, admitting that a certain set of circumstances has enabled justice to act of its own accord.

Public distrust of scientists stems in part from the blurring of boundaries between science and technology, between discovery and manufacture.

Blacks have significantly shorter life spans, in part due to racism in the health establishment.

resolve a problem / dispute

resolve to do ... / that ...

decide to do ... / that ...

in future

in the future

Human beings may inhabit other planets in the future.

Before very long the parents will be complaining that the child is so secretive and never tells them anything, but they seldom realize that they



have brought this on themselves.

before very long

before too long

before much longer

before long

He will soon be working in an office.

She would be going to a fancy dress party with her husband.

be secretive / close / reticent about one's past / plan ...

He is so close about his past — it seems like he is hiding something.

bring sth. to ...

I'll bring your tea to you.

bring sth. on / upon sb.

He accused her of bringing disgrace on the family.

bring sth. on / upon oneself

I've got no sympathy for him—he has brought this all on himself.

You deserve it.

You got what you deserve.

You're asking for it.

It serves you right.

It's of your own making.

As you've made your bed, now you have to lie on it.



Disillusionment with the parents, however good and adequate they may be both as parents and as individuals, is to some degree inevitable.

Disillusionment with the parents is to some degree inevitable.

inevitable

Those who make peaceful revolution impossible will make violent revolution inevitable.

— John F. Kennedy

sth. can't be helped

(A) She can't help the man look for another platter.

(B) She forgot the platter had been broken.

(C) She didn't realize the platter had been broken.

(D) She doesn't want the man to replace the platter.

M: I don't know how I managed to break that platter. I'll be more than happy to buy you a new one.

W: Forget about it. Some things just can't be helped.

Q: What does the woman mean?

Answer: (D) She doesn't want the man to replace the platter.

Most children have such a high ideal of their parents, unless the parents themselves have been unsatisfactory, that it can hardly hope to stand up to a realistic evaluation.

have a high ideal of sb.



Try to have a high ideal of ourselves. Don't have such a high ideal of others.

have high / low expectations of sb. / sth.

Most parents have high expectations of their children.

stand up to sth. = withstand sth. 经得起....., 经受住.....

China has stood up to the Asian financial crisis.

I'm afraid that children today can hardly stand up to hardship.

stand up to sb. 反抗某人

The boy dares not stand up to bullies.

live / come up to sth. 符合....., 达到.....

The restaurant surely lives up to its reputation.

live / come up to one's expectations

The concert was brilliant — it lived / came up to all our expectations.

look up to sb. 尊敬某人

add up to sth. 总计为.....

The numbers add up to 100.

face up to sth. = face / confront sth. 面对 (某种难题或困境)

China has to face up to the aging problem.

It is always wiser and safer to face up to reality, however painful it may be at the moment.

wake up to sth. = start to realize sth. 开始意识到.....



They need to wake up to the impending threat.

Most children have such a high ideal of their parents that it can hardly hope to stand up to a realistic evaluation.

unless the parents themselves have been unsatisfactory

Parents *would* be greatly surprised and deeply touched if they *realized* how much belief their children usually have in their character and infallibility, and how much this faith means to a child.

have belief / faith / confidence in ...

It means a lot to me.

It matters to me.

It weighs heavily with me.

It makes a lot of difference to me.

how much this faith matters to a child

how much this faith weighs with a child

how much difference this faith makes to a child

If parents were prepared for this adolescent reaction, and realized *that it was a sign that the child was growing up and developing valuable powers of observation and independent judgment*, they would not be so hurt, and therefore would not drive the child into opposition by resenting and resisting it.

be prepared for sth.



be fully / sufficiently prepared for ...

We're fully / sufficiently prepared for the storm.

be mentally prepared for ...

We have to be mentally prepared for any eventuality.

If parents were mentally prepared for this adolescent reaction

be prepared to do

= be ready / willing to do

Why people are prepared to tolerate a four-hour journey each day for the dubious privilege of living in the country is beyond me.

Political science class ran overtime. That's been happening quite a bit lately, hasn't it? I guess so. Actually, what happens is that a bunch of us hang around for a while after class to talk with our professor and ask him questions. Who is this twentieth century's Socrates?

Professor Howl. Have you heard of him? Hum, he does have a good reputation in the political science department. And a well deserved one. The same students who fall asleep in discussion groups and seminars fight for front-row seats in his lectures.

Oh, no. I hope this isn't catching. You can joke. But it's great to have a professor who's not only interesting but prepared to give up time to students. I know. They are a rare breed. Maybe I should sit in on his class some time. Do you think he'd care? Not at all. Lots of students bring their



friends, and he says he feels flattered.

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power(s) n. ability

powers of observation / concentration / judgment

After the accident, he lost the power of speech.

drive sb. to do ...

It was his violent behavior that drove her to leave home.

drive sb. to / into sth.

The recession and the hospital bills drove them into bankruptcy.

drive the child into opposition



The adolescent, with his passion for sincerity, always respects a parent *who admits that he is wrong, or ignorant, or even that he has been unfair or unjust.*

She was dying with hunger

The key word to have closer relations with adolescent children is ‘sincerity’.

What the child cannot forgive is the parent's refusal to admit these charges if the child knows them to be true.

know sb. / sth. to do

I know him to be very honest.

Victorian parents believed that they kept their dignity by retreating behind an unreasoning authoritarian attitude; in fact they did nothing of the kind, but children were then too cowed to let them know *how they really felt.*

keep / maintain / retain one's dignity

lose one's dignity

destroy one's dignity

rob / strip sb. of dignity

patriarchy

do nothing of the kind

say nothing of the kind

I can assure you I did nothing of the kind.



I never said anything of the kind.

But Alfred had deduced that the Danes were no longer fit for prolonged battle: and that their commissariat had no organization, but depended on irregular raids.

Today we tend to go to the other extreme, but on the whole this is a healthier attitude both for the child and the parent.

on the whole

by the large

generally

It is always wiser and safer to face up to reality, *however painful it may be at the moment*.

Lesson 35 Space odyssey

accelerate [ək'seləreɪt]

v. 加速; (使) 加快, 促进

accelerate v. 1. (of a vehicle or person) to start to go faster 加速

The car accelerated to overtake me.

The runners accelerated smoothly around the bend.

accelerate v. 2. to happen or to make sth. happen faster or earlier than expected (使) 加快, 促进



Inflation continues to accelerate.

Exposure to the sun can accelerate the ageing process.

“celer”= swift

accelerate “ac” = to

accelerator n. 加速器

acceleration n. 加速

celerity n. 敏捷，迅速

decelerate “de” = down v. (使) 减速

terrestrial [tə'restriəl]

adj. 地球的；陆生的，陆栖的

terrestrial adj. 1. connected with the planet Earth 地球的

terrestrial life

terrestrial adj. 2. (of animals and plants) living on the land, rather than in

water, in trees or in the air 陆生的，陆栖的

terrestrial species / animals / plants

celestial adj. relating to the sky or heaven 天空的，天堂的

Gravity governs the motions of celestial bodies.

“ter(r)” = earth

terrestrial adj. 地球的；陆生的，陆栖的

extraterrestrial “extra” = beyond adj. 地球之外的，来自天外的



territory n. 领土

terrace n. 阶地; 梯田; 台阶

terrain n. 地形, 地貌, 地势

inter “in” = into v. 埋葬, 安葬

interment n. 埋葬, 安葬

disinter v. “dis” = contrary 挖出

disinterment n. 挖掘

subterranean “sub” = under adj. 地下的

Mediterranean “medi” = middle n. 地中海; adj. 地中海地区的

fascination [ˈfæsiˈneɪʃn]

n. 魅力; 迷恋, 着迷

fascination n. 1. a very strong attraction, that makes sth very interesting

魅力

have a ... fascination for ...

Mars has an extraordinary fascination for would-be voyagers.

For him, caves have the same peculiar fascination which high mountains

have for the climber.

exert a ... fascination on ...

Antique shops exert a peculiar fascination on a great many people.

fascination n. 2. the state of being very interested in something, so that



you want to look at it, learn about it etc. 迷恋，着迷

fascination with / for ...

the public's enduring fascination with the Royal Family

He had a childish fascination for battles and revolutions.

in fascination

The girls listened in fascination as the story unfolded.

fascinate v. to attract or interest sb. very much 使某人着迷

Cats never fail to fascinate human beings.

I immediately embarked on an experiment which, even though it failed to get rid of the ants, kept me fascinated for twenty-four hours.

senior ['si:niə(r)]

adj. 年长的；资深的

senior adj. 1. older 年长的

He is ten years senior to me.

senior adj. 2. with a high rank or position 资深的

a senior officer / teacher / manager

She is senior to me, since she joined the firm before me.

senior n. 1. (Am. E.) a student who is in the last year of high school or college 高中或大学毕业班的学生

freshman sophomore junior senior



senior n. 2. a senior citizen 年长者，老年人

Her husband is fifteen years her senior.

be senior to ... 比.....年长，资历深

be junior to ... 比.....年幼，资历浅

be superior to ... 优于.....

be inferior to ... 差于.....

be prior to ... 早于.....

be posterior to ... 晚于.....

The Moon is likely to become the industrial hub of the Solar System, supplying the rocket fuels for its ships, easily obtainable from the lunar rocks in the form of liquid oxygen.

hub n. 1. the central part of a wheel 轮轴

More likely, Ford Escort will be hub to hub with Renault or Mercedes, but rarely with bicycles made for two.

hub n. 2. the central and most important part of an area, system, activity

etc., which all the other parts are connected to = center / centre 中心

hub of ...

the commercial hub of the region

London is the hub of Britain's financial world.

obtainable adj. that can be obtained = available 可以获得的

easily / readily obtainable from / at / on ...



easily obtainable materials

The form is obtainable at your local post office.

The dried herb is readily obtainable from health shops.

Information on the subject is easily obtainable on the Internet.

lunar adj. 月亮的

solar adj. 太阳的

lunar / solar calendar

a total / partial lunar / solar eclipse

in the form / shape of ...

... but a medicine that had worked so well in one form of illness would surely be of equal benefit in another, ...

Convinced of the importance of education, modern states 'invest' in institutions of learning to get back 'interest' in the form of a large group of enlightened young men and women who are potential leaders.

... they have not received adequate treatment unless they are able to carry home with them some tangible remedy in the shape of a bottle of medicine, a box of pills, or a small jar of ointment, ...

The reason lies in its gravity.

lie v. (of abstract things) exist or be found (抽象事物) 存在

He must decide where his future lies.

The hardest part of the competition still lies ahead of us.



lie in ... 在于.....

The problem lies in deciding when to intervene.

The difficulty lies in knowing what to do next.

The cure for stress lies in learning to relax.

The key to a solution of that problem lay in an everyday observation.

Because the Moon has only an eightieth of the Earth's mass, it requires 97 per cent less energy to travel the quarter of a million miles from the Moon to Earth-orbit than the 200 mile-journey *from Earth's surface into orbit!*

an / one eightieth

two eightieths

(Br. E.) per cent / (Am. E.) percent

... per cent / percent less / more

How about ten-percent less?

The output of cars in the U.S last year was 24 per cent less than in 1973.

A Harris poll shows that women have 25 percent less leisure time than men do.

A car with a natural gas-powered internal-combustion engine emits 87 per cent less nitrogen oxide, 70 per cent less carbon monoxide and 25 per cent less carbon dioxide than a car with an engine that uses petrol, according to research by the Honda Motor Co.

The survey of 7,500 people found multi-sneaker buyers were 50 percent



more likely to be very assertive and 47 percent more likely to be spontaneous.

Women with fuller lips are 28 per cent more likely to be seen as a fun date than marriage material, while their thin-lipped rivals were 57 per cent more likely to have long relationships, the Leicester University study found.

The idea of colonising Mars — a world 160 times more distant than the Moon — will move decisively from the second phase to the third, ...

it ... less / more ... to ... than ...

造句：从北京到上海坐火车比坐飞机要少花 60% 的钱。

It costs 60 per cent less money to travel from Beijing to Shanghai by train than by plane.

in / into orbit

Space stations are designed to remain in orbit for years.

Once in space, the spacecraft will go into orbit around the Earth.

This may sound fantastic, but it is easily calculated.

fantastic adj. 1. not practical or sensible 不现实的，荒诞的

fantastic dreams / stories

Where do they get these fantastic ideas?

fantastic adj. 2. extremely good, attractive, enjoyable etc. 了不起的，极好的



She's a fantastic swimmer.

You passed your test? Fantastic!

fantastic adj. 3. extremely large 极大的

Their wedding cost a fantastic amount of money.

The raid was all over in three minutes, for the men scrambled back into the car and it moved off at a fantastic speed.

this may sound ..., but ...

This may sound trivial, but I assure you it is quite important!

To escape from the Earth in a rocket, one must travel at seven miles per second.

at prep. used to show a price, rate, level, age, speed etc

old books selling at 10 cents each

You should have more sense at your age.

The Renault was travelling at about 50 mph.

Moon-dwellers will be able to fly in space at only three per cent of the cost of similar journeys by their terrestrial cousins.

The comparable speed from the Moon is only 1.5 miles per second.

comparable adj. similar to sb./sth. else and able to be compared 相似的, 可比的, 相应的

The girls are of comparable ages.

A comparable house in the south of the city would cost twice as much.



By contrast, the comparable figure for the Netherlands is 16 per cent.

be comparable to / with ...

Farmers were meant to get an income comparable to that of townspeople.

The risk it poses is comparable with smoking just one cigarette every year.

Because the gravity on the Moon's surface is only a sixth of Earth's (*remember how easily the Apollo astronauts bounded along*), it takes much less energy to accelerate to that 1.5 miles per second than it does on Earth.

Apollo program

The Apollo program, also known as Project Apollo, was the third United States human spaceflight program carried out by the National Aeronautics and Space Administration (NASA), which accomplished landing the first humans on the Moon from 1969 to 1972.

Apollo 11 was the spaceflight that landed the first humans on the Moon, Americans Neil Armstrong and Buzz Aldrin, on July 20, 1969. Armstrong became the first to step onto the lunar surface six hours later on July 21. Armstrong spent about two and a half hours outside the spacecraft, Aldrin slightly less, and together they collected 47.5 pounds of lunar material for return to Earth.

bound v. to run with long steps, esp. in an enthusiastic way 蹦着跑



The dogs bounded ahead.

The dog cleared the gate in one bound.

by leaps and bounds: very quickly

(A) He's growing very quickly.

(B) He's the tallest of three boys.

(C) He can jump high.

(D) He has to leave today at there.

M: Your little nephew is growing by leaps and bounds.

W: Yes. He must be at least three feet tall already.

Q: What do the speakers say about the woman's nephew?

Answer: (A) He's growing very quickly.

along adv. going forward 向前

The man took heart and, sure enough, on New Year's Eve he was able to hobble along to a party.

It suddenly dawned on me that this express was not roaring down the line at ninety miles an hour, but barely chugging along at thirty.

Moon-dwellers will be able to fly in space *at only three per cent of the cost of similar journeys by their terrestrial cousins.*

The city dweller never experiences anxieties of this sort.

While they enjoy the comfort and banal luxury of their dwelling, they do not realize that they are deprived of the necessities of life.



similar journeys *made by their terrestrial cousins*

make a journey

He makes a journey to Moscow three times a year.

cousin n. a way of describing people from another country who are similar in some way to people in your own country 另一国家的类似的人

one's ... cousins

Many politicians want to foster closer links with our European cousins.

Whereas West Germans drink wine, their Eastern cousins prefer Schnapps.

Arthur C. Clark once suggested a revolutionary idea passes through three phases:

1 'It's impossible — don't waste my time.'

2 'It's possible, but not worth doing.'

3 'I said it was a good idea all along.'

Sir Arthur Charles Clarke (16 December 1917 – 19 March 2008) was a British-Sri Lankan science fiction writer, science writer and futurist, inventor, undersea explorer, and television series host.

New ideas pass through three periods:

It can't be done.

It probably can be done, but it's not worth doing.



I knew it was a good idea all along!

— Arthur C. Clarke

All truth passes through three stages. First, it is ridiculed. Second, it is violently opposed. Third, it is accepted as being self-evident.

— Arthur Schopenhauer

suggest v. to say that something is likely to exist or be true 指出, 提出

The cause of the problem, as Hutton suggests, is the leadership's refusal to accept any form of criticism.

phase n. 1. stage in a process of change or development 阶段, 时期

during the first / next / last phase

the initial / final phase of the project

But this phase of our development is now finished.

phase n. 2. each of the shapes of the moon as we see it from the earth at different times of the month 月相

They have found that it is connected with the passage of days and the phases of the moon.

all along: from the very beginning 始终, 一直, 早就

I knew all along that it wasn't his real name.

Do you think he's been cheating us all along?

(A) He thought Dr. Jeffries would get the job.

(B) He's not sure Dr. Jeffries will be a good chairperson.



(C) He doesn't know Dr. Jeffries very well.

(D) He thought it took too long to make the decision.

W: The dean just announced that Dr. Jeffries is going to take over as Chairperson of the English Dept.

M: I knew it all along. He was the obvious choice.

Q: What does the man mean?

Answer: (A) He thought Dr. Jeffries would get the job.

The idea of colonising Mars — *a world 160 times more distant than the Moon* — will move decisively from the second phase to the third, when a significant number of people are living permanently in space.

colonize / colonise v. establish a colony in an area 建立殖民地

Britain colonized many parts of Africa.

semi-colonial and semi-feudal society

decisive adj. 1. definite and clear in a way that leaves no doubt 确定无疑的

The answer was a decisive no.

All efforts have failed to locate decisively the birthplace of Columbus.

decisive adj. 2. very important for the final result of a particular situation 决定性的

a decisive victory / battle / moment



The injury to their key player could be a decisive factor in the game.

Germany had been decisively beaten and disarmed.

decisive adj. 3. able to decide sth. quickly and with confidence 果断的，
当机立断的

decisive management

government must take decisive action on gun control.

If we had acted more decisively it might not have come to this.

Mars has an extraordinary fascination for would-be voyagers.

have a ... fascination for ...

exert a ... fascination on ...

would-be adj. [only before noun] used to describe sb who is hoping to
become the type of person mentioned 希望成为某种人的

a would-be actor

advice for would-be parents

voyager n. a person who goes on a long journey, esp. by ship to unknown
parts of the world 长途旅行者，驾船探险者

America, Russia and Europe are filled with enthusiasts — *many of them serious and senior scientists* — who dream of sending people to it.

enthusiast n. a person who is very interested in sth. and spends a lot of
time doing it 热心于某事的人，.....爱好者，.....迷

a football enthusiast



an enthusiast of jazz

Some really keen enthusiasts go so far as to build their own computers.

America, Russia and Europe are filled with enthusiasts — many of them (being) serious and senior scientists — who dream of sending people to it.

Apart from an interesting-looking carved dagger, the box was full of crockery, much of it (being) broken.

In the nineteenth century, a novelist would bring his story to a conclusion by presenting his readers with a series of coincidences — most of them (being) wildly improbable.

dream v. to think about something that you would like to happen or have
梦想

dream of / about (doing) sth.

He had often dreamed of retiring in England and had planned to settle down in the country.

They had the kind of house we could only dream about.

dream (that)

She dreamed that one day she would be famous.

Their aim is understandable.

It is the one world in the Solar System that is most like the Earth.

most like 最像.....



Manchester City strike me as being most like China.

Here is another instance where he is most like Jesus Christ.

It is a world of red sandy deserts (*hence its name — the Red Planet*),
cloudless skies, savage sandstorms, chasms wider than the Grand Canyon
and at least one mountain more than twice as tall as Everest.

hence adv. 1. (fml.) for this reason 因此

Crime is on the increase, hence the need for more police.

His grandfather was Greek, hence the surname.

Alcohol can cause liver failure and hence death.

hence adv. 2. (fml.) from this time 从此时起

The project will be completed at the end of the decade, two years hence.

The true consequences will only be known several months hence.

chasm n. a deep crack or opening in the ground 深坑, 深渊, 峡谷

This immense chasm has been formed by an underground stream which
has tunnelled a course through a flaw in the rocks.

canyon n. a long deep valley with very steep sides made of rock 峡谷

The Grand Canyon is a steep-sided canyon carved by the Colorado River
in the state of Arizona in the United States.

Everest / Mount Everest

the highest mountain in the world. Everest is in the Himalayas, on the
border between Tibet and Nepal.



Since its discovery, it has become a sort of potholers' Everest.

It seems ideal for settlement.

ideal adj. the best or most suitable that something could possibly be 理想的, 最佳的, 最适合的

Even if you travel in ideal weather, sea journeys take a long time.

ideal weather for a holiday

He's the ideal husband for her.

The sandy beaches are ideal for families with young children.