

原力英语 B1 专项词汇拓展 5 天文地理词汇专项提升

SPACE SCIENCE

ASTRONOMY

astronomy [ə'strɒnəmi]

the scientific study of the universe and of objects that exist naturally in space, such as the moon, the sun, planets, and stars

天文学

astronomer 天文学家

astronaut 宇航员，航天员

THE COSMOS

The cosmos (UK:[ˈkɒzmos],US:[ˈkɑːzmoʊs]) is the Universe

Using the word cosmos rather than the word universe implies viewing the universe as a complex and orderly system or entity: the opposite of chaos.

宇宙(尤指被视为有序体系时的)

cosmology 宇宙学

cosmologist 宇宙学家

UNIVERSE

universe [ˈjuːnɪvɜːs]

everything that exists, especially all physical matter, including all the stars, planets, galaxies, etc. in space.

宇宙；天地万物；万象

theories of how the universe began 关于宇宙形成的各种理论

Einstein's equations showed the universe to be expanding.

爱因斯坦的方程式显示宇宙正在膨胀。

SPACE SCIENCE

big bang theory	大爆炸理论	gravity	重力
black hole	黑洞	magnitude	星的亮度;星等
dark matter	暗物质	outer space	外太空
cosmic rays	宇宙射线		

Dark matter is material that is believed large part of the universe, but which has seen.

暗物质是被认为是宇宙中很大一部分的物质，但它已经被观察到了。

The star varies in brightness by about three magnitudes.

这颗恒星的亮度大约有三个量级。

CELESTIAL BODY

celestial [sə'lestiəl]

of or from the sky or outside this world

天上的，天空的

The astronomers witnessed one of the strangest celestial events ever.

天文学家目睹了有史以来最奇怪的天体事件之一。

celestial bodies 天体

A celestial body is any natural body outside of the Earth's atmosphere.

天体是地球大气层以外的任何自然物体。

A planet is a celestial body orbiting a star.

行星是围绕恒星运行的天体。

GALAXY

galaxy ['gæləksi]

1. any of the large systems of stars, etc. in outer space

星系

Astronomers have discovered a distant galaxy.

天文学家发现了一个遥远的星系。

The Galaxy (also the Milky Way)

2. the system of stars that contains our sun and its planets, seen as a bright band in the night sky

银河系

Within our own galaxy there are probably tens of thousands of planetary systems(行星系).

在我们自己的星系中，可能有成千上万的行星系统。

STAR

star 恒星，星

A star is a large ball of burning gas in space.

恒星是一个在太空中燃烧的大气体球。

Stars appear to us as small points of light in the sky on clear nights.

在晴朗的夜晚，星星在我们看来是天空中的一个小光点。

Sirius (天狼星) is the brightest star in the sky.

天狼星是天空中最亮的星星。

There was a big moon and hundreds of stars were shining overhead.

有一个大月亮和数百颗星星在头顶闪耀。

PLANET

A planet is a large, round object in space that moves around a star.

行星

dwarf planet

矮行星

the planet Earth/Venus 地球/金星

Might there be intelligent life on other planets?

其他星球上可能有智慧生命吗？

SOLAR SYSTEM

The solar system is the sun and all the planets that go around it.

太阳系是太阳和围绕它运行的所有行星。

Our solar system is made up of the sun, 8 planets and their moons.

我们的太阳系由太阳、8 颗行星及其卫星组成。

The planets all orbit around the sun and moons orbit around a planet.

所有的行星都围绕太阳运转，而卫星则围绕一颗行星运转。

Saturn is the second biggest planet in the solar system.

土星是太阳系第二大行星。

THE EIGHT PLANETS IN OUR SOLAR SYSTEM

太阳系八大行星

TERRESTRIAL (EARTH-LIKE) PLANETS

类地行星

水星 Mercury

金星 Venus

地球 Earth

火星 Mars

JOVIAN (JUPITER-LIKE) PLANETS

类木行星

木星 Jupiter

土星 Saturn

天王 Uranus

海王 Neptune

SATELLITE

1. a natural object moving around a larger object in space

卫星

The moon is Earth's satellite.

月球是地球的卫星。

2. a device sent up into space to travel around the earth, used for collecting information or communicating by radio, television, etc.

人造卫星

A weather/ communications satellite 气象/通信卫星

The World Cup was transmitted around the world by satellite.

世界杯通过卫星传送到世界各地。

ASTEROID

asteroid ['æstərɔɪd]

an object like a very large rock that goes around the sun like a planet

小行星

Scientists are hoping an asteroid will clue them in about early life on earth.

科学家们希望小行星能为他们提供地球早期生命的线索。

There is an asteroid on a collision course with the Earth.

有一颗小行星正在与地球相撞。

asteroid belt 小行星带（火星和木星间运行）

COMET

a body of rock and ice that travels around the sun and that, as it nears the sun, develops a long tail of small pieces that can be seen

彗星

Halley's Comet(哈雷彗星) is going to come back in 2061.

哈雷彗星会在 2061 年回来。

As a comet gets closer to the sun, some gases in it begin to unfreeze.

当彗星离太阳越来越近时，其中的一些气体开始解冻。

SUPERNOVA

supernova ['su:pənəʊvə]

a star that has exploded, strongly its brightness for a few months

超新星

At least one supernova occurs per decade in our galaxy.

在我们的星系中，每十年至少有一颗超新星出现。

CONSTELLATION

constellation [ˌkɒnstəˈleɪʃn]

a group of stars that forms a shape in the sky and has a name

星座

horoscope ['hɒrəskəʊp]

a description of what is going to happen to you, based on the position of the stars and planets at the time of your birth

根据你出生时恒星和行星的位置，对你将要发生什么的描述

at the time of your birth 星象，占星(根据星象算命)

ROTATE

rotate [rəʊˈteɪt]

to move or turn around a central fixed point

v.旋转;转动

The earth rotates around the sun.

地球绕着太阳转。

rotation [rəʊˈteɪʃn]

the action of an object moving in a circle around a central fixed point

n.旋转;转动

the daily rotation of the earth on its axis(轴)地球每天的自转

Earth completes 366 rotations (n.) about its axis in every leap year(闰年).

地球在每一个闰年中绕其轴线旋转 366 圈。

ORBIT

orbit ['ɔ:bit]

1. If something such as a satellite orbits a planet, moon, or sun, it moves around it in a continuous, curving path.

v. 沿轨道运行; 围绕.....运动

The earth takes a year to orbit the sun.

地球绕太阳运行需要一年的时间。

2. a curved path followed by a planet or an object as it moves around another planet, star, moon, etc.

n. (天体等运行的) 轨道

the earth's orbit around the sun 地球环绕太阳的轨道

EARTH'S ROTATION

Earth's rotation on its axis occurs every 24 hours.

地球绕地轴自转每 24 小时一次。

Earth is always moving. Each day, the Earth makes one complete rotation on its axis. The axis is the imaginary line through the Earth that extends from the North Pole to the South Pole.

地球总是在运动。每天，地球绕着它的轴作一个完整的自转。这个轴是一条从北极延伸到南极的穿过地球的假想线。

As Earth rotates, it seems like the sun is moving across the sky, but it's really the Earth that is spinning. It takes 24 hours to complete one rotation, which is why there are 24 hours in one day.

当地球自转时，似乎太阳在天空中移动，但实际上是地球在旋转。完成一个轮换需要 24 小时，这就是为什么一天有 24 小时。

In other words, if the sun is visible in the morning starting around 6:00AM, the Earth

will spin completely around by the next morning at 6:00 AM and you will see the sun in about the same place.

换言之，如果早上 6 点左右可以看到太阳，那么到第二天早上 6 点地球将完全自转，你将在同一个地方看到太阳。

EARTH'S ORBIT

The Earth orbits around the sun every 365.25 days.

地球每 365.25 天绕太阳一周。

While the Earth is rotating on its axis, it also orbits the sun. It takes a little more than 365 days for the Earth to make a complete trip around the sun.

当地球绕着它的轴旋转时，它也绕着太阳转。地球绕太阳转一圈需要 365 天多一点的时间。

Other planets have different orbital times. It takes only 87 days for Mercury to orbit the sun, but 12 years for Jupiter to make the journey.

其他行星有不同的轨道时间。水星绕太阳公转只需 87 天，木星绕太阳公转则需 12 年。

Scientists used to think that the Earth was the center of the universe, but phenomena such as stellar parallax have proven that this is not true because the position of some stars change as we orbit.

科学家过去认为地球是宇宙的中心，但恒星视差等现象已经证明这是不正确的，因为有些恒星的位置会随着我们的轨道而改变。

ECLIPSE

eclipse [ɪˈklɪps]

an occasion when the sun disappears from view, either completely or partly, while the moon is moving between it and the earth, or when the moon becomes darker while the shadow of the earth moves over it

日食;月食

an eclipse of the sun/moon 日食;月食

a total/partial eclipse 全食;偏食

PHASE

phase [feɪz]

1. a stage in a process of change or development

阶段;时期

a critical/decisive phase 关键性/决定性阶段

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

(月亮的)盈亏

SPACE TRAVEL

craft/spacecraft 航天器

rocket 火箭

spaceship 宇宙飞船

space shuttle 航天飞机(往返于地球和太空站之间运载人和物资的)

space station 空间站, 太空站

capsule 太空舱

GEOGRAPHY**SPHERE**

sphere [sfiə(r)]

an object that is completely round in shape like a ball. 球体

hemisphere ['hemɪsfiə(r)]

(地球的)半球

the northern/southern hemisphere 北/南半球

sphere

构成名词, a region that surrounds a planet, especially the earth 层

atmosphere 大气, 大气层

ionosphere 电离层

EQUATOR

equator [ɪ'kwetə(r)]

an imaginary line around the earth at an equal distance from the North and South Poles

赤道

LATITUDE LONGITUDE

latitude ['lætɪtju:d]

the distance of a place north or south of the equator, measured in degrees

纬度

parallel ['pærəlel] 纬线;平行线

longitude ['lɒŋɡɪtju:d]

the distance of a place east or west of the Greenwich meridian, measured in degrees

经度

meridian [mə'riðiən] 经线

TIME ZONE

time zone

one of many equal parts into which the world is divided. In any place within each part, the particular point in the day is the same, and is an hour in either side

时区

If you go from New York to London, you cross five time zones.

如果你从纽约到伦敦，你要跨越五个时区。

ALTITUDE

altitude ['æltɪtju:d]

1. the height above sea level

海拔;海拔高度

We are flying at an altitude of 6000 meters.

我们正在 6000 米的高空飞行。

2.a place that is high above seal level

(海拔高的) 高处, 高地

Snow leopards live at high altitudes.

雪豹生活在高海拔地区。

The athletes trained at altitude in Mexico City.

运动员们在墨西哥城进行高空训练。

HORIZON

horizon [hə'raɪzn]

the line at the farthest place that you can see, where the sky seems to touch the land or sea

地平线

The sun sank below the horizon.

太阳沉到地平线以下。

The moon rose slowly above the horizon.

月亮慢慢地升到地平线上。

sea level 海平面

The top of Mount Everest is 8,844 m above sea level.

珠穆朗玛峰的顶部海拔 8844 米。

LANDFORM

landform ['lændfɔ:m]

a natural feature of the earth's surface

地形, 地貌

A landform is a feature on the Earth's surface that is part of the terrain(地势, 地带).

Mountains, hills, plateaus(高原),and plains(平原)are the four major types of landforms.

高山，丘陵，高原，和平原是四大地貌类型。

Minor landforms include buttes(四周陡峭，顶部平坦的小方山)，canyons(峡谷),valleys(山谷),and basins(盆地).

次要地形包括山丘、峡谷、山谷和盆地。

CONTINENTS AND OCEANS

CLIMATE ZONE

climate zone	气候带	temperate zone	温带
tropical zone	热带	cold zone	寒带
subtropics	亚热带		

天文地理类翻译必备词汇

涵盖四六级和考研翻译类常见词汇和表达

故宫博物院	Palace Museum	洱海	Erhai lake
长城	the Great Wall	黄河	Yellow River
外滩	the Bund	长江	Yangtze River
华山	Huashan Mountain	珠江	Pearl River
黄山	Yellow Mountain	太湖	Lake Tai
庐山	Lushan Mountain	鄱阳湖	Lake Poyang
洞庭湖	Lake Dongting	青藏高原	Tibet Plateau
东北平原	Tibet China Plateau	华北平原	North China Plain
黄果树瀑布	Huangguoshu Waterfalls	南沙群岛	Nansha Island
长江三峡	Three Gorges along the Changjiang		
长江中下游平原	Plain of middle and Lower Reaches of Changjiang River		

敦煌莫高窟	Dunhuang Mogao Caves
大兴安岭	Greater Khing'an Mountains
小兴安岭	Lesser Khing'an Mountains
布达拉宫	Potala Palace
日月潭	Lake Sun Moon
淡水湖	freshwater lake
沿海港口	coastal port
植物园	botanical garden
西部地区	western regions
省会	provincial capital
水域面积	water area
三面环山	to be surrounded by mountains on three sides
提高全民环保意识	raise environmental awareness amongst the general public
环保产品	environment-friendly product
一次性产品	disposable product
开发可再生资源	to develop renewable resources
高能耗产业	energy-intensive industry
可持续发展	sustainable development
生态环境	the ecological environment
温室效应	greenhouse effect
污染物	pollutant
水土保持	water and soil conservation
降雨量	rainfall
先污染后治理	to exert control after pollution
碳减排	carbon emission reduction