

Morning Reading 晨读

Grade 10 · Week 17

Read each word aloud, then copy the English word three times. 朗读每个单词，然后把英语单词抄写三遍。

Reading 阅读

Read the passage aloud twice. 把短文朗读两遍。

Hundreds of machines fly silently above your head. A **satellite** is any object that orbits a planet. The Moon is a natural one; the others we built and launched. They stay in orbit because **gravity** keeps pulling them towards the Earth while they move forward at great speed. Satellites carry phone calls, take weather photos, and tell your map app exactly where you are.

Satellites collect mountains of data, and data needs a home. A **database** stores information in an organised way. Each row is a **record**, for example one weather station. Programs read the data from a **file** or search the database directly.

Trade now connects the whole planet; we call this **globalisation**. A **multinational company** makes phones in one country, writes software in another, and sells everywhere. Some governments use **trade protection**: a **tariff** taxes imports to make them dearer, and a **quota** limits how many may enter. Supporters of **free trade** say open markets make goods cheaper for everyone.

Talk about it 说一说:

1. Your phone map knows where you are. How do satellites make this possible?
2. A tariff makes imported shoes expensive. Who wins and who loses?

Physics

Topic 6 · Space physics

🌀 **orbital speed** 轨道速率

/ˈɔːbɪtl spɪd/

☀️ **Solar System** 太阳系

/ˈsəʊlə ˈsɪstəm/

🌐 **planet** 行星

/ˈplænɪt/

🌐 **dwarf planet** 矮行星

/dwoʊf ˈplænɪt/

☆ **white dwarf** 白矮星

/waɪt dwɔːf/

🪨 **rocky** 岩石

/ˈrɒki/

☁️ **gaseous** 气态

/ˈɡeɪsiəs/

🌐 **gas giant** 气态巨行星

/ɡæs ˈdʒaɪənt/

❄️ **ice giant** 冰巨行星

/aɪs ˈdʒaɪənt/

☆ **red giant** 红巨星

/red ˈdʒaɪənt/

💎 **asteroid** 小行星

/ˈæstəroɪd/

🛰️ **satellite** 卫星

/ˈsætəlait/

☄️ **comet** 彗星

/ˈkɒmɪt/

↓ **gravity** 引力

/ˈɡrævɪti/

⚖️ **gravitational potential energy** 重力势能

/ˌɡrævɪ ˈteɪʃənl pə ˈtenʃl ˈenədʒi/

 conservation of energy 能量守恒 <i>/kɒnsə'veɪʃn ɒv 'enədʒi/</i>			
 ellipse 椭圆 <i>/ɪ'lips/</i>			
 dust 尘埃 <i>/dʌst/</i>			
 element 元素 <i>/ɪlɪmənt/</i>			
 accretion 吸积 <i>/ə'kreɪʃn/</i>			
 accretion disc 吸积盘 <i>/ə'kreɪʃn dɪsk/</i>			
 star 恒星 <i>/stɑː/</i>			

Chemistry

Topics 11-12 · Organic chemistry, Experimental techniques and chemical analysis

 monomers 单体 <i>/ˈmɒnəməz/</i>			
 repeat unit 重复单元 <i>/rɪ'piːt 'juːnɪt/</i>			
 Polyamides 聚酰胺 <i>/ˌpɒlɪ'eɪməɪdɪz/</i>			
 Nylon 尼龙 <i>/ˈnaɪlɒn/</i>			
 Polyesters 聚酯 <i>/ˌpɒlɪ'estəz/</i>			
 Plastics 塑料 <i>/ˈplæstɪks/</i>			
 landfill 填埋 <i>/ˈlændfɪl/</i>			
 Proteins 蛋白质 <i>/ˈprəʊtɪnz/</i>			

 stop-watch 秒表 <i>/stɒp wɒtʃ/</i>			
 thermometer 温度计 <i>/θɜː'mɒmɪtə/</i>			
 balance 天平 <i>/ˈbæləns/</i>			
 measuring cylinder 量筒 <i>/ˈmeʒərɪŋ 'sɪlɪndə/</i>			
 burette 滴定管 <i>/bʊə'ret/</i>			
 volumetric pipette 移液管 <i>/ˌvɒljʊː'metrɪk pɪ'pet/</i>			
 gas syringe 注射器 <i>/gæs sɪ'rɪndʒ/</i>			
 saturated solution 饱和溶液 <i>/ˈsætʃəreɪtɪd sə'luːʃn/</i>			
 residue 残渣 <i>/ˈresɪdjuː/</i>			
 filtrate 滤液 <i>/ˈfɪltreɪt/</i>			
 end-point 终点 <i>/end poɪnt/</i>			
 paper chromatography 纸色谱法 <i>/ˈpeɪpə krəʊmə'tɒɡrəfi/</i>			
 locating agent 显色剂 <i>/ləʊ'keɪtɪŋ 'eɪdʒənt/</i>			

Biology

Topics 19–20 · Organisms and their environment, Human influences on ecosystems

 foreign species 外来物种			
<i>/ˈfɒrən ˈspiːsiːz/</i>			
 carbon cycle 碳循环			
<i>/ˈkɑːbən ˈsaɪkl/</i>			
 combustion 燃烧			
<i>/kəmˈbʌstʃn/</i>			
 fossil fuels 化石燃料			
<i>/ˈfɒsl ˈfjuːəlz/</i>			
 nitrogen cycle 氮循环			
<i>/ˈnaɪtrədʒn ˈsaɪkl/</i>			
 ammonium ions 铵离子			
<i>/æˈmɒniəm ˈaɪənz/</i>			
 nitrification 硝化作用			
<i>/ˈnaɪtrifiˈkeɪʃn/</i>			
 nitrogen fixation 固氮作用			
<i>/ˈnaɪtrədʒn fɪkˈseɪʃn/</i>			
 denitrification 反硝化作用			
<i>/diːˈnaɪtrifiˈkeɪʃn/</i>			
 population 种群			
<i>/ˌpɒpjəˈleɪʃn/</i>			
 community 群落			
<i>/kəˈmjuːnɪti/</i>			
 ecosystem 生态系统			
<i>/ˈiːkəʊsɪstəm/</i>			
 predation 捕食			
<i>/prɪˈdeɪʃn/</i>			
 lag phase 延迟期			
<i>/læɡ feɪz/</i>			
 exponential phase 对数期			
<i>/ˌekspəˈnenʃl feɪz/</i>			

 stationary phase 稳定期			
<i>/ˈsteɪʃənəri feɪz/</i>			
 death phase 衰亡期			
<i>/deθ feɪz/</i>			
 fertilisers 化肥			
<i>/ˈfɜːtəlaɪzəz/</i>			
 yields 产量			
<i>/jiːldz/</i>			
 insecticides 杀虫剂			
<i>/ˌɪnˈsektsaɪdɪz/</i>			
 herbicides 除草剂			
<i>/ˈhɜːbɪsaɪdɪz/</i>			
 weeds 杂草			
<i>/wiːdz/</i>			
 livestock 牲畜			
<i>/ˈlaɪvstɒk/</i>			
 monoculture 单一栽培			
<i>/ˈmɒnəkʌltʃə/</i>			
 biodiversity 生物多样性			
<i>/ˌbaɪəʊdaɪˈvɜːsɪti/</i>			
 habitats 栖息地			
<i>/ˈhæbɪtəts/</i>			
 pollution 污染			
<i>/pəˈluːʃn/</i>			
 food webs 食物网			
<i>/fuːd webz/</i>			
 food chains 食物链			
<i>/fuːd tʃeɪnz/</i>			
 deforestation 森林砍伐			
<i>/dɪˈfɒrɪˈsteɪʃn/</i>			
 extinction 灭绝			
<i>/ekˈstɪŋkʃn/</i>			
 sewage 污水			
<i>/ˈsuːɪdʒ/</i>			

 ecosystems 生态系统			
/ˈiːkəʊsɪstəmz/			
 eutrophication 富营养化			
/juːˈtrɒfiˈkeɪʃn/			
 producers 生产者			
/prəˈdjuːsəz/			
 decomposers 分解者			
/dɪˈkəmˈpəʊzəz/			

Mathematics

Topics 8–9 · Probability, Statistics

 with replacement 有放回			
/wɪð rɪˈpleɪsmənt/			
 without replacement 无放回			
/wɪˈðaʊt rɪˈpleɪsmənt/			
 conditional probability 条件概率			
/kənˈdɪʃənəlˌprɒbəˈbɪləti/			
 statistical 统计			
/stəˈtɪstɪkl/			
 data 数据			
/'deɪtə/			
 tally table 计数表			
/'tæliˈteɪbl/			
 two-way table 双向表			
/tuː weɪˈteɪbl/			
 mean 平均数			
/miːn/			
 median 中位数			
/'miːdiən/			
 mode 众数			
/məʊd/			
 frequency 频数			
/'frɪkwənsi/			

 grouped data 分组数据			
/gruːpt 'deɪtə/			
 modal class 众数组			
/'məʊdl klæs/			
 quartile 四分位数			
/'kwɔːtaɪl/			
 interquartile range 四分位距			
/'ɪntə'kwɔːtaɪl reɪndʒ/			
 bar chart 条形图			
/bɑː tʃɑːt/			

Computer Science

Topics 2–10 · Data transmission, Databases, Boolean logic

 unique 唯一的			
/juːˈniːk/			
 structured query language 结构化查询语言			
/'strʌktʃəd 'kwɪəriˈlæŋɡwɪdʒ/			
 query 查询			
/'kwɪəri/			
 condition 条件			
/kənˈdɪʃn/			
 ascending 升序			
/əˈsendɪŋ/			
 descending 降序			
/dɪˈsendɪŋ/			
 Boolean logic 布尔逻辑			
/'bʊːliənˈlɒdʒɪk/			
 truth table 真值表			
/truːθˈteɪbl/			
 NOT gate 非门			
/nɒtˈgeɪt/			

 AND gate 与门			
/ænd geɪt/			
 OR gate 或门			
/ɔː geɪt/			
 NAND gate 与非门			
/nænd geɪt/			
 NOR gate 或非门			
/nɔː geɪt/			
 XOR gate 异或门			
/'eksɔː geɪt/			
() logic expression 逻辑表达式			
/ˈlɒdʒɪk ek'spreʃn/			
 logic circuit 逻辑电路			
/ˈlɒdʒɪk 'sɜːkɪt/			
 problem statement 问题陈述			
/ˈprɒbləm 'steɪtmənt/			
 parity block 奇偶校验块			
/ˈpærɪti blɒk/			
 parity byte 奇偶校验字节			
/ˈpærɪti baɪt/			

Economics

Topic 6 · International trade and globalisation

 dependent 依赖			
/dɪˈpendənt/			
 globalisation 全球化			
/ˌɡləʊbəlaɪˈzeɪʃn/			
 multinational company 跨国公司			
/ˌmʌltɪˈnæʃənəl ˈkʌmpəni/			
 host country 东道国			
/həʊst ˈkʌntri/			

 trade protection 贸易保护			
/treɪd prəˈtektʃn/			
 tariff 关税			
/ˈtærɪf/			
 quota 配额			
/ˈkwɒtə/			
 embargo 禁运			
/emˈbɑːɡəʊ/			
 infant industry 幼稚产业			
/ˈɪnfənt ˈɪndʌstri/			
 dumping 倾销			
/ˈdʌmpɪŋ/			
 exchange rate 汇率			
/eksˈtʃeɪndʒ reɪt/			
 currency 货币			
/ˈkʌrənsɪ/			
 floating exchange rate 浮动汇率			
/ˈfləʊtɪŋ eksˈtʃeɪndʒ reɪt/			
 appreciation 升值			
/əˌpriːʃiˈeɪʃn/			

English

Topics 5-7 · Writing a report, Writing an article, Writing a review

 solution 解决办法			
/səˈluːʃn/			
 flat 平淡			
/flæt/			
 decide 决定			
/dɪˈsaɪd/			
 believable 可信			
/bɪˈliːvəbl/			
 criticise 批评			
/ˈkrɪtɪsaɪz/			

 **fair** 公正
/feə/
