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# Morning Reading 晨读

Grade 10 · Week 17

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*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

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*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

 **Solar System** 太阳系

 **planet** 行星

 **dwarf planet** 矮行星

 **white dwarf** 白矮星

 **rocky** 岩石

 **gaseous** 气态

 **gas giant** 气态巨行星

 **ice giant** 冰巨行星

 **red giant** 红巨星

 **asteroid** 小行星

 **satellite** 卫星

 **comet** 彗星

 **gravity** 引力

 **gravitational potential energy** 重力势能

 **conservation of energy**  
能量守恒

 **ellipse** 椭圆

 **dust** 尘埃

 **element** 元素

 **accretion** 吸积

 **accretion disc** 吸积盘

☆ star 恒星

## Chemistry

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

○ monomers 单体

↔ repeat unit 重复单元

∞ Polyamides 聚酰胺

🧵 Nylon 尼龙

∞ Polyesters 聚酯

🗑️ Plastics 塑料

🗑️ landfill 填埋

🧬 Proteins 蛋白质

⌚ stop-watch 秒表

🌡️ thermometer 温度计

⚖️ balance 天平

🧪 measuring cylinder 量筒

🧪 burette 滴定管

🧪 volumetric pipette 移液管

🧪 gas syringe 注射器

💧 saturated solution 饱和溶液

⋮ residue 残渣

💧 filtrate 滤液

🏁 end-point 终点

 **paper chromatography**  
纸色谱法

 **locating agent** 显色剂

## Biology

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

 **foreign species** 外来物种

 **carbon cycle** 碳循环

 **combustion** 燃烧

 **fossil fuels** 化石燃料

 **nitrogen cycle** 氮循环

 **ammonium ions** 铵离子

 **nitrification** 硝化作用

 **nitrogen fixation** 固氮作用

 **denitrification** 反硝化作用

 **population** 种群

 **community** 群落

 **ecosystem** 生态系统

 **predation** 捕食

 **lag phase** 延迟期

 **exponential phase** 对数期

 **stationary phase** 稳定期

 **death phase** 衰亡期

 **fertilisers** 化肥

|                                                                                                         |  |  |  |
|---------------------------------------------------------------------------------------------------------|--|--|--|
|  yields 产量             |  |  |  |
|  insecticides 杀虫剂      |  |  |  |
|  herbicides 除草剂        |  |  |  |
|  weeds 杂草              |  |  |  |
|  livestock 牲畜          |  |  |  |
|  monoculture 单一栽培      |  |  |  |
|  biodiversity 生物多样性    |  |  |  |
|  habitats 栖息地          |  |  |  |
|  pollution 污染          |  |  |  |
|  food webs 食物网         |  |  |  |
|  food chains 食物链      |  |  |  |
|  deforestation 森林砍伐  |  |  |  |
|  extinction 灭绝       |  |  |  |
|  sewage 污水           |  |  |  |
|  ecosystems 生态系统     |  |  |  |
|  eutrophication 富营养化 |  |  |  |
|  producers 生产者       |  |  |  |
|  decomposers 分解者     |  |  |  |

## Mathematics

*Topics 8–9 · Probability, Statistics*

|                                                                                                                     |  |  |  |
|---------------------------------------------------------------------------------------------------------------------|--|--|--|
|  with replacement 有放回            |  |  |  |
|  without replacement 无放回         |  |  |  |
|  conditional probability<br>条件概率 |  |  |  |

|                                                                                                                     |  |  |  |
|---------------------------------------------------------------------------------------------------------------------|--|--|--|
|  <b>statistical</b> 统计             |  |  |  |
|  <b>data</b> 数据                    |  |  |  |
|  <b>tally table</b> 计数表            |  |  |  |
|  <b>two-way table</b> 双向表          |  |  |  |
|  <b>mean</b> 平均数                   |  |  |  |
|  <b>median</b> 中位数                 |  |  |  |
|  <b>mode</b> 众数                    |  |  |  |
|  <b>frequency</b> 频数               |  |  |  |
|  <b>grouped data</b> 分组数据          |  |  |  |
|  <b>modal class</b> 众数组            |  |  |  |
|  <b>quartile</b> 四分位数              |  |  |  |
|  <b>interquartile range</b> 四分位距 |  |  |  |
|  <b>bar chart</b> 条形图            |  |  |  |

## Computer Science

*Topics 2-10 · Data transmission, Databases, Boolean logic*

|                                                                                                                              |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------|--|--|--|
|  <b>unique</b> 唯一的                        |  |  |  |
|  <b>structured query language</b> 结构化查询语言 |  |  |  |
|  <b>query</b> 查询                          |  |  |  |
|  <b>condition</b> 条件                      |  |  |  |
|  <b>ascending</b> 升序                      |  |  |  |
|  <b>descending</b> 降序                     |  |  |  |
|  <b>Boolean logic</b> 布尔逻辑                |  |  |  |

|                                                                                                                 |  |  |  |
|-----------------------------------------------------------------------------------------------------------------|--|--|--|
|  <b>truth table</b> 真值表        |  |  |  |
|  <b>NOT gate</b> 非门            |  |  |  |
|  <b>AND gate</b> 与门            |  |  |  |
|  <b>OR gate</b> 或门             |  |  |  |
|  <b>NAND gate</b> 与非门          |  |  |  |
|  <b>NOR gate</b> 或非门           |  |  |  |
|  <b>XOR gate</b> 异或门           |  |  |  |
| <b>( ) logic expression</b> 逻辑表达式                                                                               |  |  |  |
|  <b>logic circuit</b> 逻辑电路     |  |  |  |
|  <b>problem statement</b> 问题陈述 |  |  |  |
|  <b>parity block</b> 奇偶校验块   |  |  |  |
|  <b>parity byte</b> 奇偶校验字节   |  |  |  |

## Economics

*Topic 6 · International trade and globalisation*

|                                                                                                                          |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------|--|--|--|
|  <b>dependent</b> 依赖                  |  |  |  |
|  <b>globalisation</b> 全球化             |  |  |  |
|  <b>multinational company</b><br>跨国公司 |  |  |  |
|  <b>host country</b> 东道国              |  |  |  |
|  <b>trade protection</b> 贸易保护         |  |  |  |
|  <b>tariff</b> 关税                     |  |  |  |
|  <b>quota</b> 配额                      |  |  |  |

|                                  |  |  |  |
|----------------------------------|--|--|--|
| 🚫 embargo 禁运                     |  |  |  |
| 👶 infant industry 幼稚产业           |  |  |  |
| 📉 dumping 倾销                     |  |  |  |
| ↔ exchange rate 汇率               |  |  |  |
| 💰 currency 货币                    |  |  |  |
| 🌊 floating exchange rate<br>浮动汇率 |  |  |  |
| ↗ appreciation 升值                |  |  |  |

## English

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

|                 |  |  |  |
|-----------------|--|--|--|
| 💡 solution 解决办法 |  |  |  |
| — flat 平淡       |  |  |  |
| 🗳 decide 决定     |  |  |  |
| 👍 believable 可信 |  |  |  |
| 🗨 criticise 批评  |  |  |  |
| ⚖ fair 公正       |  |  |  |