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# Morning Reading 晨读

Grade 10 · Week 16

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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。

Why is January cold and July hot? The Earth's **axis** is **tilted**. As the Earth travels around the **Sun**, our half of the planet sometimes leans towards the Sun and sometimes away. That gives us the **seasons**. The Earth also **rotates** once every 24 hours, which gives us day and night.

Programs repeat things too. A **loop** runs the same lines again and again. A **count-controlled loop** repeats an exact number of times: print a star, five times. **Selection** means the program chooses a path: IF it rains, THEN take an umbrella. With **sequence**, selection and **iteration**, you can build any program.

Countries also repeat a yearly cycle: they buy and sell with each other. Goods sold to other countries are **exports**; goods bought from them are **imports**. **Developed countries** often sell services and machines, while many **developing countries** sell food and raw materials, though this is changing fast.

*Talk about it 说一说:*

1. Explain to a child why summer days are long and winter days are short.
2. Name three things your family owns that were imported. Where were they made?

## Physics

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*Topics 5-6 · Nuclear physics, Space physics*

☀ **exposure** 照射

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🛡 **shielding** 屏蔽

\_\_\_\_\_

🔄 **rotate** 自转

\_\_\_\_\_

✚ **axis** 轴

\_\_\_\_\_

|                                                                                                             |  |  |  |
|-------------------------------------------------------------------------------------------------------------|--|--|--|
|  <b>tilted</b> 倾斜          |  |  |  |
|  <b>Sun</b> 太阳             |  |  |  |
|  <b>seasons</b> 季节         |  |  |  |
|  <b>Moon</b> 月球            |  |  |  |
|  <b>phases</b> 月相          |  |  |  |
|  <b>circumference</b> 周长   |  |  |  |
|  <b>orbital speed</b> 轨道速率 |  |  |  |
|  <b>Solar System</b> 太阳系   |  |  |  |
|  <b>planet</b> 行星          |  |  |  |
|  <b>dwarf planet</b> 矮行星   |  |  |  |
|  <b>white dwarf</b> 白矮星    |  |  |  |
|  <b>rocky</b> 岩石         |  |  |  |
|  <b>gaseous</b> 气态       |  |  |  |
|  <b>gas giant</b> 气态巨行星  |  |  |  |
|  <b>ice giant</b> 冰巨行星   |  |  |  |
|  <b>red giant</b> 红巨星    |  |  |  |

## Chemistry

*Topic 11 · Organic chemistry*

|                                                                                                                         |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------|--|--|--|
|  <b>bitumen</b> 沥青                   |  |  |  |
|  <b>Alkanes</b> 烷烃                   |  |  |  |
|  <b>substitution reaction</b> 取代反应   |  |  |  |
|  <b>photochemical reaction</b> 光化学反应 |  |  |  |

 **ultraviolet light** 紫外线

 **Alkenes** 烯烃

 **Cracking** 裂化

**+** **addition reactions** 加成  
反应

 **addition polymerisation**  
加聚

 **condensation  
polymerisation** 缩聚

 **Alcohols** 醇

 **ethanol** 乙醇

 **fermentation** 发酵

 **ethene** 乙烯

 **solvent** 溶剂

 **Carboxylic acids** 羧酸

 **amino acid** 氨基酸

 **bases** 碱

 **vinegar** 醋

 **ester** 酯

 **polymer** 聚合物

## Biology

*Topics 17–19 · Inheritance, Variation and selection, Organisms and their environment*

 **colour blindness** 色盲

 **continuous variation** 连  
续变异

|                                    |  |  |  |
|------------------------------------|--|--|--|
| 👁 phenotypes 表现型                   |  |  |  |
| 📊 discontinuous variation<br>不连续变异 |  |  |  |
| 🩸 ABO blood groups 血型              |  |  |  |
| 🔗 mutation 突变                      |  |  |  |
| 🧬 alleles 等位基因                     |  |  |  |
| 🔗 gene mutation 基因突变               |  |  |  |
| ☢ ionising radiation 电离辐射          |  |  |  |
| 🔄 adaptive feature 适应特征            |  |  |  |
| 📦 inherited 遗传                     |  |  |  |
| 🛡 survive 生存                       |  |  |  |
| 😊 reproduce 生殖                     |  |  |  |
| 💧 hydrophytes 水生植物                 |  |  |  |
| ☀ xerophytes 旱生植物                  |  |  |  |
| 🔍 natural selection 自然选择           |  |  |  |
| 👨 many offspring 后代                |  |  |  |
| ⚔ competition 竞争                   |  |  |  |
| 🌿 resources 资源                     |  |  |  |
| 💊 antibiotic 抗生素                   |  |  |  |
| 🔍 selective breeding 选择育种          |  |  |  |
| 👤 artificial selection 人工选择        |  |  |  |
| 🌾 crops 农作物                        |  |  |  |

|                                                                                                                |  |  |  |
|----------------------------------------------------------------------------------------------------------------|--|--|--|
|  <b>food chain</b> 食物链        |  |  |  |
|  <b>food web</b> 食物网          |  |  |  |
|  <b>producer</b> 生产者          |  |  |  |
|  <b>consumer</b> 消费者          |  |  |  |
|  <b>herbivore</b> 食草动物        |  |  |  |
|  <b>carnivore</b> 食肉动物        |  |  |  |
|  <b>decomposer</b> 分解者        |  |  |  |
|  <b>decomposition</b> 分解      |  |  |  |
|  <b>trophic level</b> 营养级     |  |  |  |
|  <b>pyramid</b> 金字塔           |  |  |  |
|  <b>biomass</b> 生物量           |  |  |  |
|  <b>crop plants</b> 农作物     |  |  |  |
|  <b>overharvesting</b> 过度捕捞 |  |  |  |

## Mathematics

*Topics 7-8 · Transformations and vectors, Probability*

|                                                                                                                    |  |  |  |
|--------------------------------------------------------------------------------------------------------------------|--|--|--|
|  <b>position vector</b> 位置向量    |  |  |  |
|  <b>collinear</b> 共线            |  |  |  |
|  <b>coplanar</b> 共面             |  |  |  |
|  <b>probability</b> 概率          |  |  |  |
|  <b>event</b> 事件                |  |  |  |
|  <b>outcome</b> 结果              |  |  |  |
|  <b>relative frequency</b> 相对频率 |  |  |  |
|  <b>fair</b> 公平                 |  |  |  |

|                                                                                                                         |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------|--|--|--|
|  <b>bias</b> 偏倚                        |  |  |  |
|  <b>random</b> 随机                      |  |  |  |
|  <b>expected frequency</b> 期望<br>频数    |  |  |  |
|  <b>combined events</b> 组合事<br>件       |  |  |  |
|  <b>independent events</b> 独立<br>事件    |  |  |  |
|  <b>mutually exclusive</b> 互斥          |  |  |  |
|  <b>sample space diagram</b> 样<br>本空间图 |  |  |  |
|  <b>tree diagram</b> 树状图               |  |  |  |

## Computer Science

*Topics 8-9 · Programming, Databases*

|                                                                                                                                      |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| <b>() parameter</b> 参数                                                                                                               |  |  |  |
|  <b>local variable</b> 局部变量                       |  |  |  |
|  <b>global variable</b> 全局变量                      |  |  |  |
|  <b>library routine</b> 库程序                       |  |  |  |
|  <b>maintainable</b> 可维护的                         |  |  |  |
|  <b>meaningful identifiers</b> 有<br>意义的标识符        |  |  |  |
|  <b>comments</b> 注释                               |  |  |  |
| <b>[] array</b> 数组                                                                                                                   |  |  |  |
| <b># index</b> 索引                                                                                                                    |  |  |  |
|  <b>one-dimensional (1D)</b><br><b>array</b> 一维数组 |  |  |  |

 **two-dimensional (2D)**  
**array** 二维数组

 **file** 文件

 **database** 数据库

 **single-table database** 单  
表数据库

 **record** 记录

 **field** 字段

 **text/alphanumeric** 文本

 **character** 字符

 **date/time** 日期时间

 **primary key** 主键

## Economics

*Topics 5–6 · Economic development, International trade and globalisation*

 **population structure** 人  
口结构

 **population pyramid** 人口  
金字塔

 **ageing population** 人口老  
龄化

 **economic development**  
经济发展

 **developed countries** 发达  
国家

 **developing countries** 发  
展中国家

 **subsistence farming** 自给  
农业

|                                                                                                          |       |       |       |
|----------------------------------------------------------------------------------------------------------|-------|-------|-------|
|  <b>debt</b> 债务         | _____ | _____ | _____ |
|  <b>trade</b> 贸易        | _____ | _____ | _____ |
|  <b>exports</b> 出口      | _____ | _____ | _____ |
|  <b>imports</b> 进口      | _____ | _____ | _____ |
|  <b>free trade</b> 自由贸易 | _____ | _____ | _____ |
|  <b>domestic</b> 国内的    | _____ | _____ | _____ |
|  <b>compete</b> 竞争      | _____ | _____ | _____ |

## English

*Topics 5–11 · Writing a report, Vocabulary and text types*

|                                                                                                         |       |       |       |
|---------------------------------------------------------------------------------------------------------|-------|-------|-------|
|  <b>text type</b> 文本类型 | _____ | _____ | _____ |
|  <b>notice</b> 通知    | _____ | _____ | _____ |
|  <b>leaflet</b> 传单   | _____ | _____ | _____ |
|  <b>act</b> 行动       | _____ | _____ | _____ |
|  <b>phrases</b> 短语   | _____ | _____ | _____ |
|  <b>aim</b> 目的       | _____ | _____ | _____ |