
Morning Reading 晨读

Grade 10 · Week 16

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。

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

Topics 5-6 · Nuclear physics, Space physics

(☞) **electromagnetic wave** 电
磁波

☞ **lead** 铅

→ **penetrating** 穿透

📄 **sample** 样品

 half-life 半衰期			
 smoke alarm 烟雾报警器			
 sterilise 消毒			
 cancer 癌症			
 living cells 细胞			
 bacteria 细菌			
 mutation 突变			
 dose 剂量			
 exposure 照射			
 shielding 屏蔽			
 rotate 自转			
 axis 轴			
 tilted 倾斜			
 Sun 太阳			
 seasons 季节			
 Moon 月球			
 phases 月相			
 circumference 周长			

Chemistry

Topic 11 · Organic chemistry

 bitumen 沥青			
 Alkanes 烷烃			
 substitution reaction 取代反应			

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

Mathematics

Topics 7–8 · Transformations and vectors, Probability

 position vector 位置向量			
 collinear 共线			
 coplanar 共面			

 probability 概率			
 event 事件			
 outcome 结果			
% relative frequency 相对频率			
 fair 公平			
 bias 偏倚			
 random 随机			
 expected frequency 期望频数			
 combined events 组合事件			
 independent events 独立事件			
 mutually exclusive 互斥			
 sample space diagram 样本空间图			
 tree diagram 树状图			

Computer Science

Topics 8–9 · Programming, Databases

 parameter 参数			
 local variable 局部变量			
 global variable 全局变量			
 library routine 库程序			
 maintainable 可维护的			
 meaningful identifiers 有意义的标识符			

 comments 注释			
[] array 数组			
# index 索引			
⋮ one-dimensional (1D) array 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			
T text/alphanumeric 文本			
T 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			
 debt 债务			
 trade 贸易			
 exports 出口			
 imports 进口			
 free trade 自由贸易			
 domestic 国内的			
 compete 竞争			

English

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

 text type 文本类型			
 notice 通知			
 leaflet 传单			
 act 行动			
 phrases 短语			
 aim 目的			