
Morning Reading 晨读

Grade 10 · Week 15

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。

Is a country rich if it has money? Not only that. The **Human Development Index** measures three things together: income per person, education, and **life expectancy**, how long people live. A country can grow richer while some people stay poor. **Absolute poverty** means a family cannot afford basic food and shelter. **Relative poverty** means they have far less than others around them. One tool against low pay is a **minimum wage**.

In physics, you learned that some rocks and even the air are slightly **radioactive**. A detector clicks even with no sample nearby; this is **background radiation**, coming from space and from the ground. Radioactive **decay** is **random**: no one can say which atom will break next, only how many will decay on average.

How does a computer find one name in a list of millions? A **linear search** checks each item, one by one. To put a list in order, a **bubble sort** swaps neighbours again and again until the list is sorted.

Talk about it 说一说:

1. Which matters more for a good life: income, education, or health? Discuss.
2. How would you find one card in a shuffled deck? Compare your method with a linear search.

Physics

Topic 5 · Nuclear physics

☄ **cosmic rays** 宇宙射线

[] **detector** 探测器

⚡ **counter** 计数器

 count rate 计数率			
✓ corrected 修正			
 ionising 电离			
 aluminium 铝			
 electromagnetic wave 电磁波			
 lead 铅			
→ penetrating 穿透			
 absorb 吸收			
 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			

Chemistry

Topics 10–11 · Chemistry of the environment, Organic chemistry

 photosynthesis 光合作用			
 yeast 酵母			
 glucose 葡萄糖			
 displayed formula 结构式			

⬡ structural formula 结构简式

Σ general formula 通式

🔗 Structural isomers 同分异构体

≡ homologous series 同系物

📦 functional group 官能团

○ saturated 饱和

🔗 unsaturated 不饱和

💎 coal 煤

🔥 natural gas 天然气

🛢️ petroleum 石油

⬡ hydrocarbon 碳氢化合物

≡ fractions 馏分

🔧 fractional distillation 分馏

🔧 fractionating column 分馏塔

🔧 chain length 链长

⇌ volatility 挥发性

💧 viscosity 黏度

Biology

Topics 16–17 · Reproduction, Inheritance

♂ secondary sexual characteristics 第二性征

↻ menstrual cycle 月经周期			
○ ovulation 排卵			
👶 progesterone 孕酮			
🤰 pregnancy 怀孕			
🦠 sexually transmitted infection 性传播感染			
🦠 infection 感染			
🦠 virus 病毒			
📊 codes 编码			
🧬 allele 等位基因			
♂ sex chromosomes 性染色体			
÷ ratio 比例			
🌟 neurotransmitters 神经递质			
🗣 expresses 表达			
✉ messenger 信使			
⦿ ribosome 核糖体			
📦 mitosis 有丝分裂			
📦 replication 复制			
⦿ daughter cell 子细胞			
🧑 stem cells 干细胞			
↗ meiosis 减数分裂			
📖 inheritance 遗传			
🧬 genotype 基因型			

☉ phenotype 表现型			
↑ dominant 显性			
↓ recessive 隐性			
= homozygous 纯合子			
💎 pure-breeding 纯种			
± heterozygous 杂合子			
× cross 杂交			
田 Punnett square 庞纳特方格			
♂ pedigree diagram 系谱图			
× test cross 测交			
↔ codominance 共显性			
🩸 blood groups 血型			
♂ sex-linked 伴性遗传			

Mathematics

Topics 6–7 · Trigonometry, Transformations and vectors

↘ angle of depression 俯角			
∠ trigonometric equation 三角方程			
∠ sine rule 正弦定理			
∠ cosine rule 余弦定理			
② ambiguous case 两解情况			
□ plane 平面			
△ transformation 变换			

 reflection 反射			
— mirror line 对称轴			
 rotation 旋转			
 enlargement 放大			
 translation 平移			
 vector 向量			
 column vector 列向量			
# scalar 标量			
$\rightarrow$ directed line segment 有向线段			

Computer Science

Topic 8 · Programming

± integer 整数			
⊙ real 实数			
T char 字符			
〰 string 字符串			
⊙ Boolean 布尔值			
≡ sequence 顺序			
∞ selection 选择			
↺ iteration 迭代			
⊙ loop 循环			
↺ count-controlled loop 计数循环			
↑ pre-condition loop 前测循环			

↓ **post-condition loop** 后测循环

% **remainder** 余数

>≡ **nested statement** 嵌套语句

✂ **substring** 子串

↑ **upper case** 大写

↓ **lower case** 小写

↔ **length** 长度

Ⓢ **procedure** 过程

Ⓢ **function** 函数

Economics

Topic 5 · Economic development

♡ **life expectancy** 预期寿命

↗ **income distribution** 收入分配

☹ **poverty** 贫困

☹ **absolute poverty** 绝对贫困

⚖ **relative poverty** 相对贫困

↗ **redistribute** 再分配

⤴ **minimum wage** 最低工资

💰 **benefits** 福利

😊 **birth rate** 出生率

💀 **death rate** 死亡率

✈ migration 移民	_____	_____	_____
→] immigration 迁入	_____	_____	_____
[→ emigration 迁出	_____	_____	_____
↔ net migration 净移民	_____	_____	_____

English

Topics 10–11 · Speaking skills, Vocabulary and text types

🎵 intonation 语调	_____	_____	_____
↔ paraphrasing 释义	_____	_____	_____
🔗 collocations 词语搭配	_____	_____	_____
📖 set phrases 固定短语	_____	_____	_____
🗨 phrasal verbs 短语动词	_____	_____	_____
≈ fluent 流利	_____	_____	_____