
Morning Reading 晨读

Grade 11 · AS · 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。

Why does China build high-speed trains while another country grows coffee? Because countries, like people, gain when they **specialise**. A country has an **absolute advantage** when it can make something using fewer resources than others. But the deeper idea is **comparative advantage**: even a country that is worse at everything should make what it gives up least to produce, and trade for the rest. Trade makes both sides better off, which is why economists frown when **protectionism** returns: a **tariff** taxes imports, a **quota** limits them, and consumers quietly pay the bill. Defenders reply that a young **infant industry** may need shelter before it can compete.

Programmers use the same principle: divide the work. A **function** is a small, named piece of a program that does one job well. You call it with **arguments**, it works with its own **local variables**, and it hands back a result. Big programs are built from small functions, each written once and reused everywhere, the code version of specialisation.

Talk about it 说一说:

1. Your friend is faster than you at both maths and English homework. Can trading tasks still help you both?
2. Name three things a function and a factory worker have in common.

Physics

Topic 11 · Particle physics

⊙ **alpha particle** α 粒子

↷ **deflection** 偏转

⊙ **nucleus** 原子核

+ **proton** 质子

○ neutron 中子			
⊗ nuclide 核素			
# proton number 质子数			
Σ nucleon number 核子数			
⊙ nucleon 核子			
↯ isotope 同位素			
⚖ unified atomic mass unit 统一原子质量单位			
☼ radiation 辐射			
☼ radioactive 放射性			
⚡ ionising 电离			
⊞ discrete 分立			
☁ cloud chamber 云室			
— beta particle β 粒子			

Chemistry

Topics 14–18 · Hydrocarbons, Halogen compounds, Hydroxy compounds, Carbonyl compounds, Carboxylic acids and derivatives

⬡ amine 胺			
⌋ silver nitrate 硝酸银			
⚡ transition state 过渡态			
↪ aldehyde 醛			
≡ ketone 酮			
⚗ carboxylic acid 羧酸			
⊞ ester 酯			

 distillation 蒸馏			
 reflux 回流			
 tri-iodomethane 三碘甲烷			
 acidity 酸性			
 carbonyl compound 羰基化合物			
 carbonyl 羰基			
 hydrogen cyanide 氰化氢			
 hydroxynitrile 羟基腈			
 Fehling's reagent 斐林试剂			
 Tollens' reagent 托伦试剂			
 esterification 酯化			

Biology

Topics 9–10 · Gas exchange, Infectious diseases

 microbe 微生物			
 smooth muscle 平滑肌			
 elastic fibre 弹性纤维			
 squamous epithelium 扁平上皮			
 infectious disease 传染病			
 pathogen 病原体			
 transmit 传播			
 cholera 霍乱			

 contaminated 污染			
 faeces 粪便			
 malaria 疟疾			
 protocist 原生生物			
 mosquito 蚊子			
 vector 媒介			
 tuberculosis 结核病			
 droplet 飞沫			
 AIDS 艾滋病			
 immune system 免疫系统			
 vaccine 疫苗			
 insecticide 杀虫剂			
 antibiotic 抗生素			
 penicillin 青霉素			

Mathematics

Topic 5 · Probability & Statistics 1

 conditional probability 条件概率			
 discrete random variable 离散型随机变量			
 probability distribution table 概率分布表			
 expectation 期望			
 binomial distribution 二 项分布			

↘ **geometric distribution**
几何分布

🔔 **normal distribution** 正态
分布

≈ **continuous random
variable** 连续型随机变量

❓ **approximation** 近似

Further Mathematics

Topic 4 · Further Probability & Statistics

✓ **goodness of fit** 拟合优度

🔗 **independence** 独立性

📊 **contingency table** 列联表

🔍 **non-parametric test** 非参
数检验

Computer Science

Topics 11–12 · Programming, Software Development

↓ **post-condition loop** 后测
循环

≡ **structured
programming** 结构化编程

() **parameters** 参数

f **function** 函数

() **arguments** 实参

📄 **pass by value** 传值

🔗 **pass by reference** 传引用

□ **local variable** 局部变量

 global variable 全局变量			
 scope 作用域			
 signature 签名			
 invariant 不变量			
 development life cycle 开发生命周期			
 requirements 需求			
 waterfall 瀑布模型			
 iterative model 迭代模型			
 rapid application development 快速应用开发			
 prototype 原型			
 agile 敏捷			
 implementation 实现			
 maintenance 维护			
 structure chart 结构图			
 state-transition diagram 状态转换图			
 states 状态			

Economics

Topic 6 · International economic issues

 specialise 专业化			
 absolute advantage 绝对优势			
 comparative advantage 比较优势			

 terms of trade 贸易条件			
 protectionism 贸易保护主义			
 tariff 关税			
 quota 配额			
 embargo 禁运			
 administrative barriers 行政壁垒			
 infant industry 幼稚产业			
 dumping 倾销			
 retaliation 报复			
 stakeholder 利益相关者			
 current account 经常账户			