
Morning Reading 晨读

Grade 11 · AS · 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。

Before writing code, a programmer writes a plan. **Pseudocode** looks like simple English but has the shape of a program: INPUT the marks, IF a mark is over 50 THEN count it, OUTPUT the total. Every program is built from just three shapes: **sequence** (one step after another), **selection** (choosing a path), and **iteration** (a **loop** repeating steps). Complex problems are cut into smaller pieces first, a method called **stepwise refinement**: plan the trip, then plan each day, then each morning. Choosing the right **data type** matters too: whole numbers, decimals, text, or true/false.

In the electronics lab you built a **potential divider**: two resistors sharing a voltage. Replace one with a **thermistor** and the output voltage changes with temperature, the heart of a thermostat. Replace it with a **light-dependent resistor** and you have built the sensor that switches streetlights on at dusk.

Governments plan too. **Fiscal policy** sets taxes and spending; spend more than you collect and there is a **budget deficit**, which adds to the **national debt**.

Talk about it 说一说:

1. Write pseudocode, three lines or more, for making instant noodles.
2. A streetlight turns on at dusk by itself. Explain the chain: light, sensor, switch.

Physics

Topics 9–10 · Electricity, D.C. circuits

🛡 **insulator** 绝缘体

🧱 **lattice vibration** 晶格振动

🔄 **scatters** 散射

☀ light-dependent resistor
光敏电阻

☀ light intensity 光强

⌋ thermistor 热敏电阻

↘ negative temperature
coefficient 负温度系数

↕ potential divider 分压器

☐ breadboard 面包板

⌚ multimeter 万用表

⊕ internal resistance 内阻

☐ cell 电池

☐ terminal p.d. 端电压

⌘ open circuit 开路

⚡ short circuit 短路

⌚ ammeter 电流表

⌚ voltmeter 电压表

Chemistry

Topics 13–14 · An introduction to AS Level organic chemistry, Hydrocarbons

⦿ positional isomerism 位
置异构

🔗 functional group
isomerism 官能团异构

📦 stereoisomerism 立体异
构

⚙ geometrical isomerism
几何异构

 **restricted rotation** 受限
旋转

↑ **cis** 顺式

↑↓ **trans** 反式

[:] **optical isomerism** 旋光异
构

 **chiral** 手性

 **chiral centre** 手性中心

[:] **enantiomers** 对映体

⊕ **hydrogenation** 氢化

 **alkene** 烯烃

↗ ↘ **cracking** 裂化

 **combustion** 燃烧

 **complete combustion** 完
全燃烧

 **incomplete combustion**
不完全燃烧

 **carbon monoxide** 一氧化
碳

Biology

Topic 8 · Transport in mammals

 **vein** 静脉

 **pulmonary artery** 肺动脉

 **pulmonary vein** 肺静脉

 **aorta** 主动脉

 **vena cava** 腔静脉

 muscle 肌肉			
 elastic 弹性			
 lumen 管腔			
 valve 瓣膜			
 red blood cell 红细胞			
 monocyte 单核细胞			
 neutrophil 中性粒细胞			
 lymphocyte 淋巴细胞			
 plasma 血浆			
 tissue fluid 组织液			
 oxygen dissociation curve 氧解离曲线			
 saturation 饱和度			
 partial pressure 分压			
 Bohr shift 波尔位移			
 carbonic anhydrase 碳酸酐酶			
 hydrogencarbonate ion 碳酸氢根离子			
 chloride ion 氯离子			

Mathematics

Topics 4–5 · Mechanics, Probability & Statistics 1

 thrust 推力			
 air resistance 空气阻力			
 Probability & Statistics 概率统计			

 **stem-and-leaf diagram** 茎叶图

 **box-and-whisker plot** 箱线图

 **histogram** 直方图

 **cumulative frequency** 累积频数

 **central tendency** 集中趋势

 **mean** 平均数

 **median** 中位数

Further Mathematics

Topic 4 · Further Probability & Statistics

 **percentiles** 百分位数

 **median** 中位数

 **hypothesis test** 假设检验

 **confidence interval** 置信区间

Computer Science

Topics 9–10 · Algorithm Design and Problem-solving, Data Types and Structures

 **sequence** 顺序

 **selection** 选择

 **iteration** 迭代

 **loop** 循环

 **assignment** 赋值

 **concatenation** 拼接

 **structured English** 结构化英语

 **flowchart** 流程图

 **stepwise refinement** 逐步求精

() logic statement 逻辑语句

 **precedence** 优先级

 **De Morgan's law** 德摩根定律

 **procedure** 过程

[] array 数组

index 索引

• **element** 元素

[] bounds 边界

 **dimension** 维度

→ linear search 线性查找

 **file** 文件

 **text file** 文本文件

 **end of file** 文件结束

 **abstract data type** 抽象数据类型

 **stack** 栈

Economics

Topics 4–5 · The macroeconomy, Government macroeconomic intervention

 **demand-pull inflation** 需求拉动型通货膨胀

↑ **cost-push inflation** 成本推动型通货膨胀

⚖ **price stability** 物价稳定

👥 **full employment** 充分就业

⊕ **balance of payments** 国际收支

↕ **redistribution of income** 收入再分配

⚔ **conflict** 冲突

👉 **demand-side policies** 需求侧政策

🏛 **fiscal policy** 财政政策

📅 **budget** 预算

↘ **budget deficit** 预算赤字

📁 **national debt** 国债

↗ **budget surplus** 预算盈余

💵 **direct tax** 直接税

= **proportional tax** 比例税