
Morning Reading 晨读

Grade 11 · AS · Week 18

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。

How do you know your program is correct? You hunt for errors, and they come in kinds. A **syntax error** breaks the language rules, and the translator refuses to run at all. A **run-time error** appears while the program runs, like dividing by zero. The most dangerous is the **logic error**: the program runs happily and gives the wrong answer. To catch them, testers do a **dry run** on paper, use **white-box testing** to exercise every path inside the code, and **black-box testing** to check inputs against expected outputs without looking inside. Before release come **alpha testing** in the company and **beta testing** with real users.

Chemists identify unknown substances with the same detective spirit. **Infrared spectroscopy** shines light through a sample: each bond absorbs its own frequencies, leaving a fingerprint. **Mass spectrometry** weighs the fragments of a molecule.

One last economic idea for the term: under a **floating exchange rate**, a currency's **appreciation** makes imports cheaper but exports harder to sell. The whole year connects: measure, model, test, and question everything.

Talk about it 说一说:

1. Find the logic error: a program to average two numbers computes $a + b / 2$.
2. Which subject taught you the most surprising idea this term? Explain it in two sentences.

Physics

Topic 11 · Particle physics

+ **positron** 正电子

— **continuous** 连续

✦ photon 光子			
↘ attenuated 衰减			
☸ gamma ray γ 射线			
☒ daughter nucleus 子核			
⚡ excited state 激发态			
± antiparticle 反粒子			
⊖ antineutrino 反中微子			
○ neutrino 中微子			
☒ quark 夸克			
☺ flavours 味			
☒ antiquark 反夸克			
⊙ hadrons 强子			
⊙ baryons 重子			
○ mesons 介子			
✦ leptons 轻子			

Chemistry

Topics 20–22 · Polymerisation, Organic synthesis, Analytical techniques

○ monomer 单体			
↺ repeat unit 重复单元			
☞ poly(ethene) 聚乙烯			
☞ poly(chloroethene) 聚氯乙烯			
⊖ non-biodegradable 不可生物降解			

 synthetic route 合成路线			
 reagent 试剂			
 by-product 副产物			
 infrared spectroscopy 红外光谱			
 absorption 吸收			
 wavenumber 波数			
 mass spectrometry 质谱			
 mass-to-charge ratio 质荷比			
 isotopic abundance 同位素丰度			
 molecular ion 分子离子			
 molecular ion peak 分子离子峰			
 fragmentation 碎裂			
 fragment 碎片			

Biology

Topics 10–11 · Infectious diseases, Immunity

 resistance 耐药性			
 phagocyte 吞噬细胞			
 macrophage 巨噬细胞			
 phagocytosis 吞噬作用			
 self antigen 自身抗原			
 non-self antigen 非自身抗原			

 immune response 免疫反应			
 T-helper cell 辅助性 T 细胞			
 plasma cell 浆细胞			
 memory cell 记忆细胞			
 T-killer cell 杀伤性 T 细胞			
 antigen-binding site 抗原结合位点			
 variable region 可变区			
 monoclonal antibody 单克隆抗体			
 hybridoma 杂交瘤			
 diagnosis 诊断			
 active immunity 主动免疫			
 passive immunity 被动免疫			
 natural immunity 天然免疫			
 artificial immunity 人工免疫			
 vaccination 疫苗接种			
 herd immunity 群体免疫			

Mathematics

Topics 1–5 · Pure Mathematics 1, Probability & Statistics 1

 continuity correction 连续性校正			
--	--	--	--

 standardisation 标准化			
coefficients 系数			
point of inflexion 拐点			
improper integral 广义积分			
back-to-back 背靠背			
measure of central tendency 集中趋势			
Coding 编码			
assumed mean 假定平均数			

Further Mathematics

Topic 4 · Further Probability & Statistics

± sign test 符号检验			
⋮ Wilcoxon signed-rank test 威尔科克森符号秩检验			
Σ Wilcoxon rank-sum test 威尔科克森秩和检验			
f probability generating function 概率母函数			

Computer Science

Topics 6–12 · Security, privacy and data integrity, Software Development

⊗ syntax error 语法错误			
⚠ run-time error 运行时错误			
⚡ logic error 逻辑错误			
👁 dry run 手工跟踪			

 **walkthrough** 走查

 **white-box testing** 白盒测试

 **black-box testing** 黑盒测试

 **integration testing** 集成测试

 **alpha testing** α 测试

 **beta testing** β 测试

 **acceptance testing** 验收测试

 **stub** 桩

 **test strategy** 测试策略

 **test plan** 测试计划

 **normal data** 正常数据

 **abnormal data** 异常数据

 **boundary data** 边界数据

 **perfective maintenance**
完善性维护

 **adaptive maintenance** 适应性维护

 **corrective maintenance**
纠正性维护

 **regression testing** 回归测试

 **extreme data** 极端数据

1. Malware 恶意软件

parity block check 奇偶块校验

Economics

Topic 6 · International economic issues

 trade in goods 货物贸易			
 trade in services 服务贸易			
 primary income 初次收入			
 secondary income 二次收入			
 current account deficit 经常账户赤字			
 current account surplus 经常账户盈余			
 floating exchange rate 浮动汇率			
 fixed exchange rate 固定汇率			
 managed exchange rate 管理浮动汇率			
 appreciation 升值			
 depreciation 贬值			
 expenditure-reducing 支出减少			
 expenditure-switching 支出转换			
 competitiveness 竞争力			