
Morning Reading 晨读

Grade 11 · AS · Week 10

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。

Pluck a guitar string and the sound you hear left the string as a **progressive wave** through the air. Its **frequency**, measured in **hertz**, sets the pitch; its **amplitude** sets the loudness. The air is pushed back and forth along the direction of travel, so sound is a **longitudinal wave**; light, vibrating across its direction of travel, is a **transverse wave**.

Malicious software comes in families, and the names matter. A **virus** attaches itself to a real program and spreads when the program runs; a **worm** travels through **networks** on its own. A **Trojan horse** pretends to be something useful. **Spyware** quietly watches what you type, and **ransomware** locks your files and demands payment. Most attacks still begin with **phishing**, a fake message that harvests passwords from busy people.

When one firm controls a market, it is a **monopoly**, and it may raise prices above the competitive level. Governments answer with **regulation** or, for essentials, a legal **maximum price**.

Talk about it 说一说:

1. Which is more dangerous: a virus or a phishing email? Argue your case.
2. Your city has one water company. Why might the government watch its prices?

Physics

Topics 6–7 · Deformation of solids, Waves

 **trapezia** 梯形

 **wave** 波

 **medium** 介质

 oscillate 振动			
 transverse wave 横波			
 longitudinal wave 纵波			
 progressive wave 行波			
 amplitude 振幅			
 wavelength 波长			
 in phase 同相			
 crest 波峰			
 period 周期			
 frequency 频率			
 hertz 赫兹			
 phase difference 相位差			
 radian 弧度			
 propagate 传播			
 cathode-ray oscilloscope 示波器			

Chemistry

Topic 7 · Equilibria

 equilibrium constant 平 衡常数			
 partial pressure 分压			
 mole fraction 摩尔分数			
 Haber process 哈伯法			
 Contact process 接触法			

 acid 酸			
+ proton donor 质子供体			
 base 碱			
— proton acceptor 质子受体			
 strong acid 强酸			
 strong base 强碱			
 dissociated 解离			
 weak acid 弱酸			
 weak base 弱碱			
 universal indicator 通用指示剂			
 Neutralisation 中和			
 salt 盐			
 titration curve 滴定曲线			

Biology

Topics 4–5 · Cell membranes and transport, The mitotic cell cycle

 dialysis tubing 透析袋			
 solute 溶质			
 distilled water 蒸馏水			
 turgid 膨胀			
 plasmolysis 质壁分离			
 haemolysis 溶血			
 chromosome 染色体			
 histone 组蛋白			

 replication 复制			
 sister chromatids 姐妹染色单体			
• centromere 着丝粒			
 telomere 端粒			
 mitosis 有丝分裂			
 daughter cell 子细胞			
 gene 基因			
 multicellular 多细胞			
 organism 生物体			
 tissue 组织			
 asexual reproduction 无性生殖			
 cell cycle 细胞周期			
 interphase 间期			
 cytokinesis 胞质分裂			
 stem cell 干细胞			

Mathematics

Topic 2 · Pure Mathematics 2

 cosecant 余割			
 cotangent 余切			
= trigonometric identities 三角恒等式			
+ compound angle 复合角			
 double angle 二倍角			

 **R-formula** 辅助角公式

 **product rule** 乘积法则

 **quotient rule** 商法则

 **parametric equations** 参数方程

 **implicitly** 隐式

Further Mathematics

Topic 3 · Further Mechanics

 **equilibrium** 平衡

 **toppling** 翻倒

 **sliding** 滑动

 **angular speed** 角速度

 **centripetal acceleration**
向心加速度

Computer Science

Topic 6 · Security, privacy and data integrity

 **privacy** 隐私

 **integrity** 完整性

 **malware** 恶意软件

 **virus** 病毒

 **worm** 蠕虫

 **networks** 网络

 **Trojan horse** 木马

 **spyware** 间谍软件

 ransomware 勒索软件			
 adware 广告软件			
 phishing 网络钓鱼			
 hacking 黑客入侵			
 denial of service 拒绝服务			
 eavesdropping 窃听			
 man-in-the-middle 中间人攻击			
 social engineering 社会工程			
 encryption 加密			
 audit logs 审计日志			
 VPN 虚拟专用网			
 authentication 身份验证			
 two-factor authentication 双因素认证			
 authorisation 授权			
 least-privilege 最小权限			
 plaintext 明文			

Economics

Topic 3 · Government microeconomic intervention

 external benefit 外部收益			
 monopoly 垄断			
 monopoly power 垄断势力			

 inequality 不平等			
 asymmetric information 信息不对称			
 indirect tax 间接税			
 incidence of a tax 税收归宿			
 maximum price 最高限价			
 minimum price 最低限价			
 buffer stock 缓冲库存			
 regulation 管制			
 state provision 政府提供			
 tradable permits 可交易 许可证			
 government failure 政府 失灵			
 black market 黑市			