
Morning Reading 晨读

Grade 11 · AS · Week 4

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。

Send a message to a friend abroad and it may cross the ocean in a tenth of a second. The message is split into **packets**, each stamped with the destination **IP address**. Every **router** on the way reads the address, consults its **routing table**, and forwards the packet towards its goal. At your school's edge, a **firewall** inspects the traffic and blocks anything dangerous. No single computer controls the journey; the network finds the way by itself.

In mechanics, motion in two dimensions becomes simple when you split a vector into a horizontal and a vertical **component**. Combine forces by adding them as vectors to get the **resultant**; a moving object's mass times velocity is its **momentum**.

No real country runs on markets alone. In a **mixed economy**, the **private sector** and the **public sector** work side by side. Prices act as the **price mechanism**: a rising price is both a signal and an **incentive**, telling producers where resources are wanted.

Talk about it 说一说:

1. Trace a message from your phone to a server abroad. Name each device it passes.
2. Petrol prices double. What signals and incentives does this send, and to whom?

Physics

Topics 1–3 · Physical quantities and units, Kinematics, Dynamics

▴ **inclined plane** 斜面

↕ **kinematics** 运动学

📏 **distance** 距离

⏴ **deceleration** 减速度

↗ **gradient** 斜率

 tangent 切线			
 uniform acceleration 匀加速			
 trapezium 梯形			
 gravity 重力			
 air resistance 空气阻力			
 symmetric 对称			
 reaction-time 反应时间			
 range 射程			
 projectile 抛体			
 Linear momentum 动量			
 resultant force 合力			
 collision 碰撞			
 impulse 冲量			
 kinetic energy 动能			
 external force 外力			

Chemistry

Topic 2 · Atoms, molecules and stoichiometry

 balanced 配平			
 state symbols 状态符号			
 aqueous 水溶液			
 ionic equation 离子方程式			
 spectator ions 旁观离子			

÷ empirical formula 实验式			
⬡ molecular formula 分子式			
💧 water of crystallisation 结晶水			
💧 hydrated 水合的			
🚫 anhydrous 无水的			
⚖️ stoichiometry 化学计量			
% percentage yield 产率			
⊖ limiting reagent 限量试剂			
+ excess reagent 过量试剂			
⬡ hydrocarbons 碳氢化合物			
💧 concentration 浓度			
⋮ solute 溶质			
🧂 solution 溶液			

Biology

Topic 2 · Biological molecules

🍷 carbohydrate 碳水化合物			
🍷 reducing sugar 还原糖			
☁️ precipitate 沉淀			
🍷 starch 淀粉			
🧂 iodine 碘			
🍷 emulsion 乳浊液			
🧂 biuret 双缩脲			

 semi-quantitative 半定量

 standardise 标准化

 concentration 浓度

 non-reducing sugar 非还原糖

 hydrochloric acid 盐酸

 neutralise 中和

 monomer 单体

 polymer 聚合物

 macromolecule 大分子

 monosaccharide 单糖

 glucose 葡萄糖

 disaccharide 二糖

 polysaccharide 多糖

 fructose 果糖

 maltose 麦芽糖

 sucrose 蔗糖

Mathematics

Topic 1 · Pure Mathematics 1

 circle 圆

• centre 圆心

 radius 半径

 tangent 切线

— diameter 直径

 radian 弧度			
 arc 弧			
 degrees 度			
 sector 扇形			
 chord 弦			

Further Mathematics

Topic 1 · Further Pure Mathematics 1

 geometric transformation 几何变换			
• invariant points 不变点			
— invariant lines 不变直线			
 polar coordinates 极坐标			
+ Cartesian coordinates 直角坐标			

Computer Science

Topics 2–3 · Communication, Hardware

 World Wide Web 万维网			
 subnets 子网			
 subnet mask 子网掩码			
 ISP 互联网服务提供商			
 URL 统一资源定位符			
 domain name 域名			
 Domain Name System 域名系统			

 wireless network interface card 无线网络接口卡			
 input devices 输入设备			
 output devices 输出设备			
 primary memory 主存储器			
 processor 处理器			
 secondary storage 辅助存储器			
 embedded system 嵌入式系统			
 firmware 固件			
 laser printer 激光打印机			
 drum 感光鼓			
 Toner 墨粉			
 3D printer 3D 打印机			
 microphone 麦克风			
 capacitor 电容器			
 analogue-to-digital converter 模数转换器			
 hard disk 硬盘			
 tracks 磁道			
 sectors 扇区			
 read/write head 读写头			
 solid-state drive 固态硬盘			

Economics

Topic 1 · Basic economic ideas and resource allocation

 **mixed economy** 混合经济

 **private sector** 私营部门

 **public sector** 公共部门

 **price mechanism** 价格机制

 **signalling** 信号传递

 **incentive** 激励

 **rationing** 配给

 **production possibility curve** 生产可能性曲线

 **efficiency** 效率

 **unemployment** 失业

 **trade-off** 取舍

 **economic growth** 经济增长

 **technology** 技术

 **economic decline** 经济衰退

 **capital goods** 资本品