
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 1-2 · Physical quantities and units, Kinematics

⇒ momentum 动量	_____	_____	_____
□ coplanar 共面	_____	_____	_____
↗ resultant 合矢量	_____	_____	_____
+ perpendicular 垂直	_____	_____	_____
↖ component 分量	_____	_____	_____

↔ horizontal 水平			
↑ vertical 竖直			
∠ 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			

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

Topic 2 · Communication

 **hub** 集线器

 **wireless access point** 无线接入点

 **router** 路由器

 **packet** 数据包

 **IP address** IP 地址

 **routing table** 路由表

 **network address translation** 网络地址转换

 **DHCP** 动态主机配置协议

 **firewall** 防火墙

 **collision** 冲突

 **CSMA/CD** 载波侦听多路访问/冲突检测

 **full-duplex** 全双工

 **bit streaming** 流式传输

 **buffer** 缓冲

 **internet** 互联网

 **protocol** 协议

 **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

 **PSTN** 公共交换电话网

 **wireless network interface card** 无线网络接口卡

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			