
Morning Reading 晨读

Grade 10 · Week 6

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。

Music is physics you can hear. Sound travels as a **wave**. The **frequency** of the wave decides the pitch 音高: fast waves sound high, slow waves sound low. The **amplitude** decides how loud the sound is. Light is a **transverse wave**, like a rope shaken up and down, with a **crest** at the top and a **trough** at the bottom. Sound is a **longitudinal wave**: the air is pushed forward and back. The **wavelength** is the distance from one crest to the next.

Chemists count particles in a special way. Atoms are far too small to count one by one, so they use the **mole**. One mole of any substance contains the same huge number of particles, the **Avogadro constant**.

Why are concert tickets so expensive? Fans will pay almost any price, so demand is **inelastic**. But if the price of one brand of cola rises, people simply buy another brand: that demand is **elastic**. Sellers study **price elasticity of demand** before they set prices.

Talk about it 说一说:

1. Draw a wave in the air with your finger. Point to the crest, the trough, and one wavelength.
2. Name one product you would still buy if its price doubled. Why?

Physics

Topics 2-3 · Thermal physics, Waves

☒ **absorber** 吸收体

☒ **reflector** 反射体

≈ **wave** 波

🌀 **wave speed** 波速

 transverse wave 横波			
 longitudinal wave 纵波			
 wavefront 波前			
 wavelength 波长			
 frequency 频率			
 crest 波峰			
 trough 波谷			
 amplitude 振幅			
 propagation 传播			
 ripple tank 波纹水槽			
 reflection 反射			
 angle of reflection 反射角			
 angle of refraction 折射角			
 total internal reflection 全反射			
 critical angle 临界角			
 refraction 折射			
 angle of incidence 入射角			

Chemistry

Topics 3-4 · Stoichiometry, Electrochemistry

 state symbols 状态符号			
 mole 摩尔			
 amount of substance 物质的量			

Σ Avogadro constant 阿伏伽德罗常数

 solution 溶液

$\ominus$ limiting reactant 限量反应物

 titration 滴定

$\vdots$ solute 溶质

 electrolysis 电解

 decomposition 分解

 electrolytic cell 电解池

 fuel cell 燃料电池

 electrodes 电极

 electrolyte 电解质

$+$ anode 阳极

$-$ cathode 阴极

 inert 惰性

 platinum 铂

 metals 金属

 non-metals 非金属

 dilute 稀

 concentrated 浓

Biology

Topics 6-7 · Plant nutrition, Human nutrition

 sucrose 蔗糖

↕ phloem 韧皮部			
💧 nectar 花蜜			
🐝 pollination 传粉			
± nitrate ions 硝酸根离子			
⊕ magnesium ions 镁离子			
☀ light intensity 光照强度			
🏹 limiting factor 限制因素			
≡ control 对照			
↔ gas exchange 气体交换			
🧪 indicator 指示剂			
🔄 adapted 适应			
🛡 cuticle 角质层			
🏠 epidermis 表皮			
🏠 mesophyll 叶肉			
🏠 palisade mesophyll 栅栏 叶肉			
🏠 spongy mesophyll 海绵叶 肉			
🌬 air spaces 气腔			
🔍 stomata 气孔			
🏠 guard cells 保卫细胞			
🏠 vascular bundles 维管束			
↑ xylem 木质部			
🍽 balanced diet 均衡饮食			
🔑 calcium 钙			

💎 mineral ions 矿物质离子

🔗 iron 铁

🌀 fibre 膳食纤维

😞 scurvy 坏血病

🦴 rickets 佝偻病

🌀 alimentary canal 消化道

↓ oesophagus 食道

○ stomach 胃

🌀 small intestine 小肠

🌀 duodenum 十二指肠

🌀 ileum 回肠

🌀 large intestine 大肠

🌀 colon 结肠

Mathematics

Topic 2 · Algebra and graphs

×² quadratic 二次

☐ completing the square
配方法

÷ algebraic fraction 分式

÷ rational expression 有理
式

×² indices 指数

= equation 方程

— linear 一次

② unknown 未知数

÷ fractional equation 分式
方程

☒ simultaneous equations
联立方程

ƒ quadratic formula 求根公
式

↔ change the subject 公式
变形

≠ inequality 不等式

📏 number line 数轴

☐ region 区域

≡ sequence 数列

→ term-to-term rule 递推规
则

Computer Science

Topic 3 · Hardware

⚙️ actuator 执行器

📽️ projector 投影仪

🖨️ inkjet printer 喷墨打印机

🖨️ laser printer 激光打印机

🔊 speaker 扬声器

💾 Primary storage 主存储
器

💾 random access memory
随机存取存储器

🔒 read only memory 只读
存储器

 volatile 易失性			
 non-volatile 非易失性			
 Secondary storage 辅助存储器			
 magnetic storage 磁存储			
 optical storage 光存储			
 solid state storage 固态存储			
 flash memory 闪存			
 virtual memory 虚拟内存			
 network interface card 网络接口卡			
 media access control 介质访问控制			
 internet protocol 网际协议			
 router 路由器			

Economics

Topic 2 · The allocation of resources

 determinants 决定因素			
 elastic 富有弹性			
 inelastic 缺乏弹性			
 unit elastic 单位弹性			
 total revenue 总收益			
 total expenditure 总支出			
 price elasticity of supply 供给价格弹性			

 spare capacity 闲置产能			
 stocks 库存			
 market economy 市场经济			
 planned economy 计划经济			
 market failure 市场失灵			
 inefficient 低效率			
 private cost 私人成本			

English

Topics 2-3 · Writing: purpose, audience and accuracy, Writing an informal email

 vocabulary 词汇			
 synonyms 同义词			
 grammar 语法			
 spelling 拼写			
 punctuation 标点			
 informal email 非正式电子邮件			
 prompts 提示			