
Morning Reading 晨读

Grade 10 · Week 5

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。

On a cold morning, a metal spoon feels colder than a wooden one, but they have the same temperature. Metal is a good **thermal conductor**: it carries heat away from your warm hand quickly. Wood is a **thermal insulator**. Your coat does not make heat; it traps air, which is a poor conductor, so your body's heat stays close to you. Water needs a lot of energy to warm up because it has a high **specific heat capacity**.

Inside every computer, the processor repeats the **fetch-execute cycle** many millions of times each second. Instructions wait in **memory**, small fast **registers** hold the data being used right now, and a **cache** keeps popular data near the processor, like a pencil case on your desk.

In the market, sellers respond to prices. The **law of supply** says a higher price usually raises the **quantity supplied**. When demand and supply meet, the market reaches **equilibrium**. If the price is set too low, there is a **shortage**.

Talk about it 说一说:

1. Why does a metal chair feel colder than a plastic one in the same room?
2. Concert tickets sell out in one minute. Is the price too high or too low? Explain.

Physics

Topic 2 · Thermal physics

❄ **solidification** 凝固

⊠ **kinetic particle model** 分子动理论

⋮ **particle** 粒子

🔥 **internal energy** 内能

 transfer of thermal energy 热能传递			
 thermal conductor 热导体			
 thermal insulator 热绝缘体			
 thermal radiation 热辐射			
 thermal expansion 热膨胀			
 absolute zero 绝对零度			
 Brownian motion 布朗运动			
 kelvin 开尔文			
 specific heat capacity 比热容			
 evaporation 蒸发			
 cools down 冷却			
 conduction 热传导			
 delocalised electrons 自由电子			
 convection 对流			
 infrared 红外线			
 dull 暗淡			
 emitter 发射体			

Chemistry

Topics 2-3 · Atoms, elements and compounds, Stoichiometry

 metallic bonding 金属键			
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 malleability 展性			
 ductility 延性			
 stoichiometry 化学计量			
 formula 化学式			
 molecular formula 分子式			
 empirical formula 实验式			
 relative formula mass 相对式量			
 molar mass 摩尔质量			
 molar gas volume 摩尔气体体积			
 percentage composition by mass 质量分数			
 percentage purity 纯度			
 percentage yield 产率			
 molecule 分子			
 ratio 比例			
 spectator ions 旁观离子			
 ionic equation 离子方程式			
 word equation 文字方程式			
 symbol equation 化学方程式			
 reactants 反应物			
 products 生成物			

 **balanced** 配平

Biology

Topics 4–6 · Biological molecules, Enzymes, Plant nutrition

 **fats** 脂肪

 **carbon** 碳

 **hydrogen** 氢

 **nitrogen** 氮

 **starch** 淀粉

 **glycogen** 糖原

 **glucose** 葡萄糖

 **amino acids** 氨基酸

 **fatty acids** 脂肪酸

 **glycerol** 甘油

 **iodine solution** 碘液

 **reducing sugars** 还原糖

 **Benedict's solution** 本尼迪特试剂

 **biuret** 双缩脲

 **ethanol** 乙醇

 **emulsion** 乳浊液

 **vitamin** 维生素

 **strands** 链

 **double helix** 双螺旋

 **bases** 碱基

 bonds 化学键			
 catalyst 催化剂			
 rate 速率			
 chemical reaction 化学反应			
 enzymes 酶			
 active site 活性位点			
 substrate 底物			
 complementary 互补			
 enzyme-substrate complex 酶底物复合物			
 products 产物			
 specific 专一			
 collisions 碰撞			
 optimum temperature 最适温度			
 denatured 变性			
 raw materials 原料			
 pigment 色素			
 cell walls 细胞壁			

Mathematics

Topics 1–2 · Number, Algebra and graphs

 lower bound 下界			
 upper bound 上界			
 area 面积			

 time zone 时区			
 exchange rate 汇率			
 algebra 代数			
 variable 变量			
 substitute 代入			
 term 项			
 expression 表达式			
 like terms 同类项			
 coefficient 系数			
 expand 展开			
 brackets 括号			
 factorise 因式分解			
 difference of two squares 平方差			
 perfect square 完全平方			

Computer Science

Topic 3 · Hardware

 control bus 控制总线			
 program counter 程序计数器			
 memory address register 内存地址寄存器			
 memory data register 内存数据寄存器			
 current instruction register 当前指令寄存器			

 accumulator 累加器			
 fetch-execute cycle 取指 执行周期			
 memory 内存			
 Cache 高速缓存			
 cores 核心			
 clock speed 时钟速度			
 embedded system 嵌入式 系统			
 barcode scanner 条形码 扫描器			
 QR code scanner 二维码 扫描器			
 optical mouse 光电鼠标			
 sensors 传感器			
 touch screen 触摸屏			
 resistive 电阻式			
 capacitive 电容式			
 infrared 红外线			

Economics

Topic 2 · The allocation of resources

 direct relationship 正向 关系			
 quantity supplied 供给量			
 supply curve 供给曲线			
 costs of production 生产 成本			

 technology 技术			
 tax 税收			
 subsidy 补贴			
 equilibrium 均衡			
 disequilibrium 非均衡			
 excess demand 超额需求			
 shortage 短缺			
 excess supply 超额供给			
 surplus 过剩			
 price elasticity of demand 需求价格弹性			

English

Topic 2 · Writing: purpose, audience and accuracy

 informal 非正式			
 slang 俚语			
 plan 计划			
 linking words 衔接词			
 range 多样性			
 accuracy 准确性			
 tenses 时态			