
Morning Reading 晨读

Grade 10 · Week 8

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。

Invisible waves are all around you right now. **Radio waves** carry music to cars. **Microwaves** heat food and carry phone signals. **Ultraviolet** light from the Sun can burn your skin. Doctors use **X-rays** to see bones, and **gamma rays** to treat cancer. All of these can travel through empty space, a **vacuum**. Sound cannot: it always needs a **medium** such as air or water. Shout at a big wall and you hear an **echo**, your own sound wave reflected back.

Before money, people used **barter**: they traded fish for rice or shoes for tea. It was slow, because both sides had to want what the other had. **Money** solved this. It is a **medium of exchange** that everyone accepts, and a **store of value** you can keep for later.

Computers only understand **machine code**, patterns of ones and zeros. People write in a **high-level language** like Python, and a **translator** turns it into machine code.

Talk about it 说一说:

1. Name three invisible waves you used today and what they did for you.
2. Imagine one week without money. How would you get your lunch?

Physics

Topics 3-4 · Waves, Electricity and magnetism

[] **X-rays** X 射线

☸ **gamma rays** 伽马射线

🔊 **Sound** 声音

✕ **compression** 压缩

<> **rarefaction** 稀疏

 medium 介质			
 echo 回声			
 magnet 磁体			
 temporary magnet 临时磁体			
 permanent magnet 永磁体			
 magnetic pole 磁极			
 north pole 北极			
 south pole 南极			
 magnetic material 磁性材料			
 magnetic field 磁场			
 magnetic field lines 磁场线			
 electric field 电场			
 electric current 电流			
 conventional current 常规电流			
 direct current 直流电			
 alternating current 交流电			

Chemistry

Topics 5–6 · Chemical energetics, Chemical reactions

 neutralisation 中和			
 enthalpy change 焓变			

 colliding 碰撞			
 physical change 物理变化			
 chemical change 化学变化			
 precipitate 沉淀			
 rate of reaction 反应速率			
 reversible reaction 可逆反应			
 forward reaction 正反应			
 reverse reaction 逆反应			
 redox reaction 氧化还原反应			
 collision theory 碰撞理论			
 surface area 表面积			
 catalyst 催化剂			
 enzymes 酶			
 syringe 注射器			
 hydrated 水合			
 anhydrous 无水			
 closed system 密闭系统			
 position of equilibrium 平衡位置			
 equilibrium 平衡			
 endothermic 吸热反应			

Biology

Topics 7–9 · Human nutrition, Transport in plants, Transport in animals

 pepsin 胃蛋白酶			
 trypsin 胰蛋白酶			
 alkaline 碱性			
 neutralises 中和			
 villi 绒毛			
 microvilli 微绒毛			
 capillaries 毛细血管			
 lacteal 乳糜管			
 support 支撑			
 vessels 导管			
 lignin 木质素			
 cortex 皮层			
 stain 染色剂			
 transpiration 蒸腾作用			
 water vapour 水蒸气			
 evaporates 蒸发			
 diffuses 扩散			
 wind speed 风速			
 humidity 湿度			
 transpiration pull 蒸腾拉力			
 forces of attraction 吸引力			
 column 水柱			
 wilts 萎蔫			

↕ **translocation** 转运

↑ **sources** 源

↓ **sinks** 库

♡ **circulatory system** 循环系统

♡ **heart** 心脏

⚡ **pump** 泵

⌂ **valves** 瓣膜

○ **single circulation** 单循环

🐾 **mammal** 哺乳动物

∞ **double circulation** 双循环

↓ **pressure** 压力

⟷ **septum** 隔膜

⌂ **atrium** 心房

♡ **ventricle** 心室

Mathematics

Topics 2–3 · Algebra and graphs, Coordinate geometry

[:] **symmetry** 对称

⊕ **intercept** 截距

🌀 **parabola** 抛物线

↻ **turning point** 转折点

— **asymptote** 渐近线

⚡ **differentiation** 微分

 tangent 切线			
 derivative 导数			
 stationary point 驻点			
 maximum 最大值			
 minimum 最小值			
 function 函数			
 domain 定义域			
 range 值域			
 inverse function 反函数			
 composite function 复合函数			
 axes 坐标轴			

Computer Science

Topics 4–5 · Software, The internet and its uses

 programming language 编程语言			
 high-level language 高级语言			
 low-level language 低级语言			
 machine code 机器码			
 assembly language 汇编语言			
 specific 特定的			
 translator 翻译程序			
 interpreter 解释器			

<> **integrated development environment** 集成开发环境

📄 **code editor** 代码编辑器

▶ **run time environment** 运行时环境

🚨 **error diagnostics** 错误诊断

✨ **auto-completion** 自动补全

🔧 **auto-correction** 自动纠错

≡ **prettyprinting** 美化打印

🌐 **internet** 互联网

🏗️ **infrastructure** 基础设施

🌐 **world wide web** 万维网

💻 **websites** 网站

🔗 **uniform resource locator** 统一资源定位符

Economics

Topics 2–3 · The allocation of resources, Microeconomic decision-makers

⬆️ **minimum price** 最低价格

💰 **indirect tax** 间接税

📋 **regulation** 监管

📁 **direct provision** 直接提供

↔️ **barter** 物物交换

💵 **money** 货币

↔️ **medium of exchange** 交换媒介

 store of value 价值储藏			
 unit of account 记账单位			
 means of deferred payment 延期支付手段			
 durable 耐用的			
 portable 便于携带的			
 divisible 可分割的			
 central bank 中央银行			

English

Topics 3-4 · Writing an informal email, Writing a formal letter or email

 example 例子			
 detail 细节			
 semi-formal 半正式			
 head teacher 校长			
 manager 经理			
 event organiser 活动组织者			
 format 格式			