
Morning Reading 晨读

Grade 10 · Week 9

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。

Take off a wool hat on a dry winter day and your hair stands up. Rubbing gives your hair extra **electric charge**. Charges push and pull: like charges **repel**, opposite charges **attract**. When charge flows through a wire, we call it an **electric current**. A battery gives **direct current**, which flows one way. The sockets at home give **alternating current**, which changes direction many times each second.

When you type an address into a browser, you use the **world wide web**. Every device on the **internet** has an **IP address**, like a house number. Your browser asks a **web server** for the page, and the server sends it back to you.

Where does your money sleep at night? In a bank. **Commercial banks** keep savings safe and lend money to firms. The **central bank** is the bank of the whole country: it prints the money and sets the **interest rate**, the price of **borrowing**.

Talk about it 说一说:

1. Why does your hair stand up after you take off a wool hat?
2. If the interest rate rises, will people save more or borrow more? Why?

Physics

Topic 4 · Electricity and magnetism

⊕ **electric charge** 电荷

⊕ **positive charge** 正电荷

⊖ **negative charge** 负电荷

• **point charge** 点电荷

↔ **repel** 排斥

 attract 吸引			
 induced magnetism 感应磁性			
 soft iron 软铁			
 iron filings 铁屑			
 soft-iron core 软铁芯			
 magnetise 磁化			
 steel 钢			
 unmagnetised 未磁化			
 region 区域			
 compass 指南针			
 electromagnet 电磁铁			
 electron 电子			
 charging by friction 摩擦起电			
 conductor 导体			
 insulator 绝缘体			
 coulomb 库仑			

Chemistry

Topics 6–7 · Chemical reactions, Acids, bases and salts

 exothermic 放热反应			
 Haber process 哈伯法			
 Contact process 接触法			
 methane 甲烷			

≡ nitrogen 氮气			
☞ iron 铁			
☼ sulfur 硫			
⊗ vanadium(V) oxide 五氧化二钒			
☞ compromise 折中			
# oxidation number 氧化数			
↑ oxidising agent 氧化剂			
↓ reducing agent 还原剂			
⚗ potassium manganate(VII) 高锰酸钾			
⚗ potassium iodide 碘化钾			
⚗ iodine 碘			
⚗ acid 酸			
☼ strong acid 强酸			
⚗ hydrochloric acid 盐酸			
☼ weak acid 弱酸			
⚗ ethanoic acid 乙酸			
⋮ salt 盐			
⚗ carbonates 碳酸盐			

Biology

Topics 7-10 · Human nutrition, Transport in animals, Diseases and immunity

☞ coronary arteries 冠状动脉			
☼ oxygenated blood 含氧血			

 deoxygenated blood 缺氧血

 atrioventricular valves 房室瓣

 semilunar valves 半月瓣

 contract 收缩

 pulse 脉搏

 heart rate 心率

 coronary heart disease 冠心病

 risk factors 风险因素

 lumen 管腔

 arteries 动脉

 veins 静脉

 aorta 主动脉

 vena cava 腔静脉

 pulmonary artery 肺动脉

 pulmonary vein 肺静脉

 renal artery 肾动脉

 renal vein 肾静脉

 hepatic artery 肝动脉

 hepatic vein 肝静脉

 hepatic portal vein 肝门静脉

 haemoglobin 血红蛋白

 white blood cells 白细胞

⋮ platelets 血小板			
⊙ clot 凝血			
🩸 plasma 血浆			
🧪 urea 尿素			
⚡ hormones 激素			
🦠 pathogens 病原体			
🛡 phagocytes 吞噬细胞			
🍽 phagocytosis 吞噬作用			
🛡 lymphocytes 淋巴细胞			
🛡 antibodies 抗体			
🔗 fibrinogen 纤维蛋白原			
🧬 fibrin 纤维蛋白			
🦠 pathogen 病原体			

Mathematics

Topics 3–4 · Coordinate geometry, Geometry

↔ horizontal 水平			
↑↓ vertical 竖直			
⊙ origin 原点			
田 quadrants 象限			
— line segment 线段			
↔ length 长度			
△ Pythagoras' theorem 勾股定理			
• midpoint 中点			

= parallel 平行			
+ perpendicular 垂直			
□ right angle 直角			
↯ perpendicular bisector 垂直平分线			
• vertex 顶点			
> acute angle 锐角			
» obtuse angle 钝角			
↺ reflex angle 优角			
× vertically opposite angles 对顶角			

Computer Science

Topic 5 · The internet and its uses

🖼 rendering 渲染			
<> hypertext markup language 超文本标记语言			
📍 IP address 网际协议地址			
🌐 domain name service 域名服务			
🌐 web server 网页服务器			
🕒 session 会话			
💾 persistent 持久			
⚙ user preferences 用户偏好			
₿ digital currency 数字货币			
📄 electronic form 电子形式			

 **blockchain** 区块链

 **digital ledger** 数字账本

 **transaction** 交易

 **timestamp** 时间戳

 **hash value** 哈希值

 **cyber security** 网络安全

 **brute force attack** 暴力破解

 **data interception** 数据拦截

 **distributed denial of service** 分布式拒绝服务

 **hacking** 黑客攻击

Economics

Topic 3 · Microeconomic decision-makers

 **interest rate** 利率

 **commercial banks** 商业银行

 **household** 家庭

 **saving** 储蓄

 **borrowing** 借贷

 **confidence** 信心

 **occupation** 职业

 **wage** 工资

 **skill** 技能

🎓 **qualifications** 资格

👥 **trade unions** 工会

⚖️ **discrimination** 歧视

👉 **division of labour** 劳动分
工

🔧 **specialisation** 专业化

English

Topics 4-5 · Writing a formal letter or email, Writing a report

😊 **polite** 礼貌

♥️ **grateful** 感激

📄 **report** 报告

📅 **event** 事件

📍 **situation** 情况

✓ **facts** 事实

✓✓ **factual** 事实性的
