
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

Topics 3-4 · Waves, Electricity and magnetism

 **virtual image** 虚像

 **magnifying glass** 放大镜

 **prism** 棱镜

 **spectrum** 光谱

 **electromagnetic spectrum** 电磁波谱

 **dispersion** 色散

 **monochromatic** 单色

 **vacuum** 真空

 **radio waves** 无线电波

 **ultraviolet** 紫外线

 **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

↑ north pole 北极			
↓ south pole 南极			
🧲 magnetic material 磁性材料			

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