
Morning Reading 晨读

Grade 10 · Week 11

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。

Imagine you open a milk-tea shop. Some costs stay the same every month, such as the rent. These are **fixed costs**. Other costs rise when you sell more, such as milk and cups. These are **variable costs**. Add them together for the **total cost**. The money coming in from sales is your **revenue**. If a new shop opens across the street, that is **competition**, and you may have to lower your price.

Protect the shop's computer too. Use a strong **password**, and turn on **two-step verification**, so a thief needs your phone as well. A **firewall** checks the traffic between your computer and the internet. Some systems use **biometrics**, such as a fingerprint, to check who you are.

In the electricity lab, you measured **resistance** in **ohms**. A long thin wire resists the current more than a short thick one. A **variable resistor** lets you turn the current up and down, like a volume knob.

Talk about it 说一说:

1. List two fixed costs and two variable costs of a milk-tea shop.
2. Which is safer: one strong password, or two-step verification? Why?

Physics

Topic 4 · Electricity and magnetism

🌀 **electron** 电子

⚡ **charging by friction** 摩擦起电

🔌 **conductor** 导体

🛡️ **insulator** 绝缘体

$\oplus$ coulomb 库仑			
$\pm$ ion 离子			
A ampere 安培			
A ammeter 电流表			
$\ominus$ free electrons 自由电子			
M mains supply 市电			
P power supply 电源			
P electrical power 电功率			
W electrical energy 电能			
V volt 伏特			
E electromotive force 电动势			
C circuit 电路			
V potential difference 电势差			
P potential divider 分压器			
V voltmeter 电压表			
R resistance 电阻			
Σ total resistance 总电阻			
Ω ohm 欧姆			
$\propto$ directly proportional 成正比			

Chemistry

Topics 7-8 · Acids, bases and salts, The Periodic Table

 **filter** 过滤

 **evaporate** 蒸发

 **crystallise** 结晶

 **precipitation** 沉淀

 **water of crystallisation**
结晶水

 **elements** 元素

 **transition elements** 过渡
元素

 **periods** 周期

 **groups** 族

 **alkali metals** 碱金属

 **lithium** 锂

 **sodium** 钠

 **potassium** 钾

 **soft** 柔软

 **trends** 趋势

 **reactivity** 活泼性

 **halogens** 卤素

 **diatomic** 双原子

 **halide** 卤化物

 **displacement reaction** 置
换反应

 coloured 有色			
 compounds 化合物			

Biology

Topics 11–14 · Gas exchange in humans, Respiration, Excretion in humans, Coordination and response

 goblet cells 杯状细胞			
 protein synthesis 蛋白质合成			
 nerve impulses 神经冲动			
 aerobic respiration 有氧呼吸			
 anaerobic respiration 无氧呼吸			
 alcohol 酒精			
 lactic acid 乳酸			
 oxygen debt 氧债			
 kidneys 肾脏			
 urine 尿液			
 ureters 输尿管			
 bladder 膀胱			
 urethra 尿道			
 dialysis 透析			
 renal cortex 皮质			
 medulla 髓质			
 nephrons 肾单位			

 filtration 过滤			
 glomerulus 肾小球			
 reabsorption 重吸收			
 deamination 脱氨基作用			
 toxic 有毒			
 coordinate 协调			
 nervous system 神经系统			
 central nervous system 中枢神经系统			
 spinal cord 脊髓			
 peripheral nervous system 周围神经系统			
 regulates 调节			
 sensory neurones 感觉神经元			
 relay neurones 中间神经元			
 motor neurones 运动神经元			
 reflex 反射			
 response 反应			
 stimulus 刺激			
 reflex arc 反射弧			
 receptor 感受器			
 effector 效应器			

Mathematics

Topic 4 · Geometry

 **regular polygon** 正多边形

 **pentagon** 五边形

 **hexagon** 六边形

 **octagon** 八边形

> **interior angle** 内角

>> **exterior angle** 外角

 **line symmetry** 轴对称

 **rotational symmetry** 旋转对称

 **plane of symmetry** 对称面

— **axis of symmetry** 对称轴

 **circle** 圆

• **centre** 圆心

 **radius** 半径

— **diameter** 直径

 **circumference** 圆周

— **chord** 弦

Computer Science

Topics 5–6 · The internet and its uses, Automated and emerging technologies

 **proxy server** 代理服务器

 **automated system** 自动化系统

 environment 环境			
 human intervention 人工干预			
 central heating 中央供暖			
 chemical process 化学过程			
 greenhouse 温室			
 car park barrier 停车场道闸			
 sensor 传感器			
 microprocessor 微处理器			
 stored values 存储值			
 agriculture 农业			
 consistent 一致的			
 Robotics 机器人技术			
 robots 机器人			
 physical structure 物理结构			
 mechanical 机械的			
 electrical components 电子元件			
 programmable instructions 可编程指令			
 factory equipment 工厂设备			

Economics

Topics 3-4 · Microeconomic decision-makers, Government and the macroeconomy

— average cost 平均成本

📊 revenue 收益

— average revenue 平均收益

🎯 objectives 目标

💚 survival 生存

↗ growth 增长

🏆 competition 竞争

🚧 barriers to entry 进入壁垒

🌐 macroeconomy 宏观经济

👥 full employment 充分就业

⚖ price stability 价格稳定

↗ inflation 通货膨胀

⚖ balance of payments 国际收支

↕ redistribution of income 收入再分配

English

Topics 6-7 · Writing an article, Writing a review

🌟 engage 吸引

📄 title 标题

% interest 兴趣

 **introduction** 引言

 **varied** 多样的

 **review** 评论

 **describes** 描述
