
Morning Reading 晨读

Grade 10 · Week 3

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。

When you send a photo to a friend, your phone does something clever. It cuts the photo into small **packets**. Each packet gets a **packet header** with the **address** of your friend's phone. **Routers** on the internet read the address and push each packet forward. This is called **packet switching**. At the other end, the packets join together again, and your friend sees the photo.

In science class this week, we learned about balance. A seesaw 跷跷板 turns around a **pivot**. The turning effect of a force is called a **moment**. When the moments on both sides are equal, the seesaw is in **equilibrium**. Every object also has a **centre of gravity**, the point where its weight seems to act.

In economics, a country must choose what to make. A **production possibility curve** shows the choices. Making more phones may mean making less food. That is a **trade-off**.

Talk about it 说一说:

1. Explain to a younger student how a photo travels across the internet.
2. Give one trade-off you made this week. What did you give up?

Physics

Topics 3–5 · Waves, Electricity and magnetism, Nuclear physics

 **enlarged** 放大的

 **diminished** 缩小的

 **upright** 正立

 **inverted** 倒立

 **short-sightedness** 近视

 retina 视网膜			
 long-sightedness 远视			
 artificial satellites 人造卫星			
 low orbit 低轨道			
 geostationary orbit 地球静止轨道			
 analogue 模拟			
 digital 数字			
 loudness 响度			
 pitch 音调			
 Ultrasound 超声波			
 repulsion 排斥力			
 attraction 吸引力			
 ranges 量程			
 Fleming's right-hand rule 弗莱明右手定则			
 Fleming's left-hand rule 弗莱明左手定则			
 deflected 偏转			
 absorbed 吸收			
 medical tracer 医用示踪剂			

Chemistry

Topics 2-7 · Atoms, elements and compounds, Acids, bases and salts

 **giant covalent structure**

巨型共价结构

 **mixture** 混合物

 **electrons** 电子

 **atom** 原子

 **element** 元素

+ **proton** 质子

 **nucleus** 原子核

 **charge** 电荷

**proton number** 质子数

Σ **nucleon number** 核子数

± **ion** 离子

 **delocalised electrons** 离域电子

 **shells** 电子层

+ **protons** 质子

 **neutrons** 中子

 **atomic number** 原子序数

 **mass number** 质量数

 **relative atomic mass** 相对原子质量

 **electronic configuration**
电子排布

 **Periodic Table** 周期表

 Period 周期			
 Group 族			

Biology

Topics 1–2 · Characteristics and classification of living organisms, Organisation of the organism

 viruses 病毒			
 protein coat 蛋白质外壳			
 genetic material 遗传物质			
 host 宿主			
 digestion 消化			
 bacterium 细菌			
 division 分裂			
 cell membrane 细胞膜			
 cytoplasm 细胞质			
 ribosomes 核糖体			
 mitochondria 线粒体			
 vacuole 液泡			
 proteins 蛋白质			
 cellulose 纤维素			
 chlorophyll 叶绿素			
 cell sap 细胞液			
 plasmids 质粒			
 specialised cells 特化细胞			
 ciliated cells 纤毛细胞			

 mucus 黏液			
 trachea 气管			
 bronchi 支气管			
 root hair cells 根毛细胞			
 absorption 吸收			
 palisade mesophyll cells 栅栏叶肉细胞			
 neurons 神经元			
 electrical impulses 电脉冲			
 red blood cells 红细胞			
 oxygen 氧气			
 sperm 精子			
 egg cells 卵细胞			
 gametes 配子			
 organism 生物体			
 tissue 组织			
 muscle 肌肉			
 organ 器官			
 organ system 器官系统			

Mathematics

Topic 1 · Number

$\div$ rationalise the denominator 分母有理化			
$\vee$ denominator 分母			

^	numerator	分子			
☉	proper fraction	真分数			
☉	improper fraction	假分数			
🍷	mixed number	带分数			
⊙	decimal	小数			
%	percentage	百分比			
↗	simplest form	最简形式			
↔	recurring decimal	循环小数			
⚙	order of operations	运算顺序			
📏	magnitude	大小			
×	multiplier	乘数			
%	interest	利息			
💰	principal	本金			
%	simple interest	单利			
↗	compound interest	复利			

Computer Science

Topic 2 · Data transmission

📦	payload	有效载荷			
📺	trailer	尾部			
📍	address	地址			
🔄	packet switching	数据包交换			
📶	routers	路由器			

→ serial 串行			
= parallel 并行			
→ simplex 单工			
↔ half-duplex 半双工			
↔ full-duplex 全双工			
⚡ universal serial bus 通用 串行总线			
🔌 interface 接口			
⚡ interference 干扰			
⚖ parity check 奇偶校验			
⊙ parity bit 奇偶校验位			
Σ checksum 校验和			
↩ echo check 回送校验			
↺ automatic repeat request 自动重传请求			
✓ acknowledgements 确认			
🕒 timeout 超时			

Economics

Topics 1-2 · The basic economic problem, The allocation of resources

👤 unemployment 失业			
⚖ trade-off 取舍			
📈 economic growth 经济增 长			
📉 economic decline 经济衰 退			

 **non-renewable resources** 不可再生资源

 **microeconomics** 微观经济学

 **macroeconomics** 宏观经济学

 **market** 市场

 **price mechanism** 价格机制

 **allocate** 配置

 **signalling** 信号

 **incentive** 激励

 **rationing** 配给

 **demand** 需求

 **good** 物品

English

Topic 1 · Reading skills

 **repetition** 重复

 **inference** 推断

 **implies** 暗示

 **attitude** 态度

 **word choice** 用词

 **multiple-choice** 选择题

 **context** 语境