
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

Topic 1 · Motion, forces and energy

💧 **displacement method** 排水法

🛶 **floats** 漂浮

📐 **shape** 形状

📈 **limit of proportionality** 比例极限

 spring constant 弹簧常数			
 Friction 摩擦力			
 moment 力矩			
 pivot 支点			
 equilibrium 平衡			
 centre of gravity 重心			
 lamina 薄片			
 stable 稳定			
 Impulse 冲量			
 stored 储存			
 transferred 转移			
 kinetic 动能			
 chemical 化学能			
 elastic (strain) 弹性势能			
 nuclear 核能			
 electrostatic 静电能			
 internal (thermal) 内能			

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			
$\pm$ ion 离子			
 delocalised electrons 离域电子			
 shells 电子层			
+ protons 质子			
 neutrons 中子			
Z atomic number 原子序数			
A mass number 质量数			
A_r 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

 rationalise the denominator 分母有理化			
 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			
 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
