
Morning Reading 晨读

Grade 10 · Week 1

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。

Science starts with **measurement**. In the laboratory 实验室, we do not guess. We use a **ruler** to measure length, a **measuring cylinder** to measure the volume of a liquid, and a balance to measure **mass**. Good scientists measure carefully, because every measurement has a small **uncertainty**.

Everything around you is made of tiny **particles**. In a **solid**, the particles are close together and only vibrate. In a **liquid**, they can move past each other. In a **gas**, they fly around quickly and are far apart. When you smell breakfast from the kitchen, gas particles have travelled 移动 to your nose!

Economists also study the world, but they study people. People have unlimited **wants**, but **resources** are **scarce**. This is the basic **economic problem**: we cannot have everything, so we must choose.

Talk about it 说一说:

1. What did you measure this week, and what did you use to measure it?
2. You have 20 yuan and one hour of free time. What do you choose to do, and what do you give up?

Physics

Topic 1 · Motion, forces and energy

 **measurement** 测量

 **ruler** 直尺

 **measuring cylinder** 量筒

 **meniscus** 弯月面

÷ measure many and
divide 测多个再相除

🕒 pendulum 摆

↺ period 周期

❓ uncertainty 不确定度

scalar 标量

📏 magnitude 大小

↗ vector 矢量

👤 mass 质量

⚡ energy 能量

🔁 principle of conservation
of energy 能量守恒定律

⚖️ Principle of moments 力
矩原理

↔ Conservation of
momentum 动量守恒

⇒ momentum 动量

🌡 temperature 温度

→ force 力

↗ resultant force 合力

↗ resultant 合矢量

Chemistry

Topic 1 · States of matter

⋯ particles 粒子

⊠ atoms 原子

 molecules 分子			
 ions 离子			
 kinetic particle theory 粒子动理论			
 kinetic energy 动能			
 energy 能量			
 thermal energy 热能			
 solid 固体			
 liquid 液体			
 gas 气体			
 volume 体积			
 compress 压缩			
 density 密度			
 mass 质量			
 relative molecular mass 相对分子质量			
 separation 间距			
 arrangement 排列			
 motion 运动			
 regular 规则			
 vibrate 振动			
 forces of attraction 引力			

Biology

Topic 1 · Characteristics and classification of living organisms

 characteristics 特征			
 life processes 生命过程			
 organisms 生物体			
 movement 运动			
 respiration 呼吸作用			
 cells 细胞			
 nutrient molecules 营养物质			
 energy 能量			
 metabolism 新陈代谢			
 sensitivity 应激性			
 environment 环境			
 growth 生长			
 dry mass 干重			
 reproduction 生殖			
 excretion 排泄			
 waste products 废物			
 nutrition 营养			
 classify 分类			
 species 物种			
 fertile offspring 可育后代			
 scientific name 学名			
 binomial system 双名法			
 genus 属			

 **dichotomous key** 二歧检索表

 **evolutionary relationships** 进化关系

 **ancestor** 祖先

 **base sequence** 碱基序列

 **genes** 基因

 **kingdoms** 界

 **animal** 动物

 **cell wall** 细胞壁

 **plant** 植物

 **photosynthesis** 光合作用

 **chloroplasts** 叶绿体

 **fungus** 真菌

 **moulds** 霉菌

 **mushrooms** 蘑菇

Mathematics

Topic 1 · Number

natural number 自然数

± integer 整数

× factor 因数

% remainder 余数

*** multiple** 倍数

 **common factor** 公因数

 common multiple 公倍数			
 prime number 质数			
 square number 平方数			
 cube number 立方数			
$\div$ rational number 有理数			
 fraction 分数			
π irrational number 无理数			
 reciprocal 倒数			
 product 乘积			
 prime factor 质因数			
$\uparrow$ highest common factor 最大公因数			

Computer Science

Topic 1 · Data representation

# digit 数字			
 binary 二进制			
 data 数据			
 logic gate 逻辑门			
 processor 处理器			
 register 寄存器			
 number system 数制			
 denary 十进制			
 hexadecimal 十六进制			
$\times_2$ base 基数			

 place value 位值			
 bit 位			
 byte 字节			
 nibble 半字节			
 memory address 内存地址			
 overflow 溢出			
 logical binary shift 逻辑二进制移位			
 least significant bit 最低有效位			
 two's complement 补码			
 most significant bit 最高有效位			

Economics

Topic 1 · The basic economic problem

 resources 资源			
 economic problem 经济问题			
 finite 有限的			
 wants 欲望			
 scarce 稀缺			
 scarcity 稀缺性			
 goods 物品			
 services 服务			
 consumers 消费者			

 workers 工人			
 producers 生产者			
 firms 企业			
 governments 政府			
 economic goods 经济物品			
 opportunity cost 机会成本			

English

Topic 1 · Reading skills

 skim 略读			
 gist 大意			
 paragraph 段落			
 scan 扫读			
 predict 预测			
 phrase 短语			
 multiple matching 多项匹配			