
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			
📏 magnitude 大小			
📊 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			
↓ weight 重力			
⌚ stopwatch 秒表			
🕒 digital timer 数字计时器			
⌚ reaction time 反应时间			

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

I 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			
÷ rational number 有理数			
🕒 fraction 分数			
∏ irrational number 无理数			
↔ reciprocal 倒数			
📦 product 乘积			
⌚ prime factor 质因数			
⤴ highest common factor 最大公因数			

Computer Science

Topic 1 · Data representation

# digit 数字			
0101 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			
$\gg$ logical binary shift 逻辑二进制移位			
$\rightarrow$ least significant bit 最低有效位			
$\ggg$ two's complement 补码			
$\leftarrow$ 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			