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# Morning Reading 晨读

Grade 11 · AS · Week 16

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*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

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*Read the passage aloud twice.* 把短文朗读两遍。

Look at the canteen at noon: the first student in the line is served first. Computer scientists call this structure a **queue**: first in, first out, or **FIFO**. New people **enqueue** at the back; the server **dequeues** from the front. Now look at the clean plates: the last plate placed on the pile is the first one taken. That is a **stack**: last in, first out, **LIFO**. You **push** a plate on top and **pop** it off again. Your browser's back button is a stack of pages; a printer's waiting list is a queue. Choosing the right structure is half of programming.

In the circuits lab you used **Kirchhoff's first law**: the current flowing into a **junction** equals the current flowing out, because charge is never lost. A **capacitor** stores charge briefly, smoothing the flow.

When inflation rises, the **central bank** tightens **monetary policy**: a higher **interest rate** makes borrowing dearer, cooling spending. **Supply-side policy** works slower but deeper, through training, technology and **infrastructure**.

*Talk about it* 说一说:

1. Find two queues and two stacks in your daily life.
2. Why does raising the interest rate slow down price rises? Trace the steps.

# Physics

Topics 1–11 · Physical quantities and units, Kinematics, Dynamics, Particle physics

✦ Leptons 轻子

🔑 base quantities 基本量

⌚ intercept 截距

÷ division 分度

⌚ reaction time 反应时间

↔ half the range 极差的一半

% percentage difference 百分比差异

# same number of significant figures 有效数字

⊕ error bar 误差棒

↗ line of best fit 最佳拟合直线

↘ worst acceptable line 最差可接受直线

✂ scale drawing 按比例作图

↗ components 分量

↓ acceleration of free fall 自由落体加速度

🌀 parabola 抛物线

→ driving force 驱动力

uniform gravitational field 匀强重力场

negligible 可忽略的

graphical methods 图像法

light gates 光电门

## Chemistry

Topics 14–15 · Hydrocarbons, Halogen compounds

☼ ultraviolet light 紫外线

🛢 crude oil 原油

📦 fraction 馏分

📦 halogenoalkane 卤代烷

🔪 dehydration 脱水

🍷 alcohol 醇

☁ steam 水蒸气

🍷 diol 二醇

🍷 bromine water 溴水

🔗 addition polymerisation  
加成聚合

🔗 polymer 聚合物

⊕ carbocation 碳正离子

→ inductive effect 诱导效应

🏠 Markovnikov's rule 马氏  
规则

⊙ primary 伯

⊙ secondary 仲

⊙ tertiary 叔

📦 nitrile 腈

## Biology

Topics 8–9 · Transport in mammals, Gas exchange

↔ chloride shift 氯转移

⬇ haemoglobinic acid 血红蛋白酸

⬇ carbaminohaemoglobin  
氨基酰血红蛋白

▮ atrium 心房

♥ ventricle 心室

↺ cardiac cycle 心动周期

✂ systole 收缩期

[ ] diastole 舒张期

⚡ sinoatrial node 窦房结

⚡ atrioventricular node 房室结

⚡ Purkyne tissue 浦肯野组织

↔ gas exchange 气体交换

≡ trachea 气管

⊗ bronchus 支气管

⊗ bronchiole 细支气管

⋮ alveoli 肺泡

≡ lungs 肺

≡ cartilage 软骨

≡ ciliated epithelium 纤毛上皮

|                    |  |  |  |
|--------------------|--|--|--|
| 💧 mucus 黏液         |  |  |  |
| 💧 goblet cell 杯状细胞 |  |  |  |
| 💧 mucous gland 黏液腺 |  |  |  |

## Mathematics

### Topic 5 · Probability & Statistics 1

|                                  |  |  |  |
|----------------------------------|--|--|--|
| ↗ mode 众数                        |  |  |  |
| ↕ variation 离散程度                 |  |  |  |
| ↔ range (of data) 极差             |  |  |  |
| [ ] interquartile range 四分位距     |  |  |  |
| 🔔 standard deviation 标准差         |  |  |  |
| ↕ variance 方差                    |  |  |  |
| ↔ permutation 排列                 |  |  |  |
| 🔗 combination 组合                 |  |  |  |
| ⊖ mutually exclusive events 互斥事件 |  |  |  |
| 🔄 independent events 独立事件        |  |  |  |

## Further Mathematics

### Topic 4 · Further Probability & Statistics

|                                 |  |  |  |
|---------------------------------|--|--|--|
| 🔗 pooled estimate 合并估计          |  |  |  |
| ✕ chi-squared test 卡方检验         |  |  |  |
| 🔔 theoretical distribution 理论分布 |  |  |  |

 **degrees of freedom** 自由度

## Computer Science

*Topics 1–12 · Information representation, Communication, Processor Fundamentals, System Software, Data Types and Structures, Software Development*

 **extreme data** 极端数据

 **packet switching** 分组交换

 **nodes** 节点

 **registers** 寄存器

 **modem** 调制解调器

 **ALU** 算术逻辑单元

 **time slice** 时间片

 **interrupt handler** 中断处理程序

**# memory addresses** 内存地址

 **properties** 属性

**number systems** 数制

**bits** 位

**nibbles** 半字节

**register width** 寄存器宽度

**arithmetic shift** 算术移位

**encodings** 编码

**frame** 帧

**frame rate** 帧率

|                                                  |  |  |  |
|--------------------------------------------------|--|--|--|
| <b>drawing objects</b> 绘图对象                      |  |  |  |
| <b>primitives</b> 图元                             |  |  |  |
| <b>renders</b> 渲染                                |  |  |  |
| <b>Public Switched Telephone Network</b> 公共交换电话网 |  |  |  |
| <b>servers</b> 服务器                               |  |  |  |
| <b>clients</b> 客户端                               |  |  |  |
| <b>public cloud</b> 公有云                          |  |  |  |
| <b>private cloud</b> 私有云                         |  |  |  |
| <b>bridge</b> 网桥                                 |  |  |  |
| <b>repeater</b> 中继器                              |  |  |  |

## Economics

*Topics 5–6 · Government macroeconomic intervention, International economic issues*

|                                                                                                                        |  |  |  |
|------------------------------------------------------------------------------------------------------------------------|--|--|--|
|  <b>regressive tax</b> 累退税          |  |  |  |
|  <b>expansionary</b> 扩张性            |  |  |  |
|  <b>contractionary</b> 紧缩性          |  |  |  |
|  <b>crowding out</b> 挤出效应           |  |  |  |
|  <b>monetary policy</b> 货币政策        |  |  |  |
|  <b>central bank</b> 中央银行           |  |  |  |
|  <b>interest rate</b> 利率            |  |  |  |
|  <b>money supply</b> 货币供给           |  |  |  |
|  <b>transmission mechanism</b> 传导机制 |  |  |  |

|                                                                                                                   |  |  |  |
|-------------------------------------------------------------------------------------------------------------------|--|--|--|
|  <b>supply-side policy</b> 供给侧政策 |  |  |  |
|  <b>privatisation</b> 私有化        |  |  |  |
|  <b>deregulation</b> 放松管制        |  |  |  |
|  <b>training</b> 培训              |  |  |  |
|  <b>infrastructure</b> 基础设施      |  |  |  |
|  <b>international trade</b> 国际贸易 |  |  |  |