

Morning Reading 晨读

Grade 11 · AS · Week 16

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。

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:

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

Physics

Topic 11 · Particle physics

田 discrete 分立

/di'skri:t/

云 cloud chamber 云室

/klaəd 'tʃeɪmbə/

— beta particle β 粒子

/'bi:tə 'pɑ:tɪkl/

+ positron 正电子

/'pɒzɪtrɒn/

— continuous 连续

/kən'tɪnju:əs/

✧ photon 光子

/'fəʊtɒn/

↘ attenuated 衰减

/ə'tenju:etɪd/

☸ gamma ray γ 射线

/'gæmə reɪ/

☒ daughter nucleus 子核

/'dɔ:tə 'nju:kliəs/

⚡ excited state 激发态

/ek'saɪtɪd steɪt/

± antiparticle 反粒子

/'æntɪ'pɑ:tɪkl/

⊖ antineutrino 反中微子

/'æntɪnju:'tri:nəʊ/

○ neutrino 中微子

/'nju:'tri:nəʊ/

☒ quark 夸克

/kwɑ:k/

☺ flavours 味

/'flɛvəz/

⊠ antiquark 反夸克	_____	_____	_____
/ˈæntɪkwɑːk/			
⊙ hadrons 强子	_____	_____	_____
/ˈhædrɒnz/			
⊙ baryons 重子	_____	_____	_____
/ˈbæriɒnz/			
○ mesons 介子	_____	_____	_____
/ˈmiːzɒnz/			
✦ leptons 轻子	_____	_____	_____
/ˈleptɒnz/			

Chemistry

Topics 14–15 · Hydrocarbons, Halogen compounds

☼ ultraviolet light 紫外线	_____	_____	_____
/ˌʊltrəˈvaɪələɪt laɪt/			
🛢 crude oil 原油	_____	_____	_____
/ˈkrʊd ɔɪl/			
≡ fraction 馏分	_____	_____	_____
/ˈfrækʃn/			
🏠 halogenoalkane 卤代烷	_____	_____	_____
/ˈheɪlədʒənaʊlkeɪn/			
🔪 dehydration 脱水	_____	_____	_____
/ˌdɪhaɪˈdreɪʃn/			
🍷 alcohol 醇	_____	_____	_____
/ˈælkəhɒl/			
☁ steam 水蒸气	_____	_____	_____
/stiːm/			
🍷 diol 二醇	_____	_____	_____
/dɪˈɒl/			
🧴 bromine water 溴水	_____	_____	_____
/ˈbrəʊmaɪn ˈwɔːtə/			
🔗 addition polymerisation 加成聚合	_____	_____	_____
/əˈdɪʃn ˌpɒlɪməraɪˈzeɪʃn/			

🔗 polymer 聚合物	_____	_____	_____
/ˈpɒlɪmə/			
⊕ carbocation 碳正离子	_____	_____	_____
/ˈkɑːbəˈkeɪʃn/			
➔ inductive effect 诱导效应	_____	_____	_____
/ɪnˈdʌktɪv iˈfekt/			
📖 Markovnikov's rule 马氏规则	_____	_____	_____
/ˈmɑːkəvɪnɪkɒvz ruːl/			
⊙ primary 伯	_____	_____	_____
/ˈpraɪməri/			
⊖ secondary 仲	_____	_____	_____
/ˈsekəndəri/			
○ tertiary 叔	_____	_____	_____
/ˈtɜːʃjəri/			
🏠 nitrile 腈	_____	_____	_____
/ˈnaɪtraɪl/			

Biology

Topics 8–9 · Transport in mammals, Gas exchange

↔ chloride shift 氯转移	_____	_____	_____
/ˈklɔːraɪdʃɪft/			
💧 haemoglobinic acid 血红蛋白酸	_____	_____	_____
/ˈhiːməˌɡləʊˈbɪnɪk ˈæsɪd/			
💧 carbaminohaemoglobin 氨基酰血红蛋白	_____	_____	_____
/ˈkɑːbəˌmɪnəʊˌhiːməˈɡləʊbɪn/			
🏠 atrium 心房	_____	_____	_____
/ˈeɪtriəm/			
♥ ventricle 心室	_____	_____	_____
/ˈventrɪkl/			
↺ cardiac cycle 心动周期	_____	_____	_____
/ˈkɑːdiæk ˈsaɪkl/			

 systole 收缩期			
<i>/ˈsɪstəʊl/</i>			
 diastole 舒张期			
<i>/ˈdaɪəstəʊl/</i>			
 sinoatrial node 窦房结			
<i>/sɪˈnəʊtriəl nəʊd/</i>			
 atrioventricular node 房室结			
<i>/ˌeɪtrɪˌəʊvənˈtrɪkjələ nəʊd/</i>			
 Purkyne tissue 浦肯野组织			
<i>/ˈpɜːkəɪn ˈtɪʃuː/</i>			
 gas exchange 气体交换			
<i>/gæs ɛksˈtʃeɪndʒ/</i>			
 trachea 气管			
<i>/trəˈkiə/</i>			
 bronchus 支气管			
<i>/ˈbrɒŋkəs/</i>			
 bronchiole 细支气管			
<i>/ˈbrɒŋkiəʊl/</i>			
 alveoli 肺泡			
<i>/ˈælvioli/</i>			
 lungs 肺			
<i>/lʌŋz/</i>			
 cartilage 软骨			
<i>/ˈkɑːtɪlɪdʒ/</i>			
 ciliated epithelium 纤毛上皮			
<i>/ˈsɪliəteɪd ˌepɪˈθiːliəm/</i>			
 mucus 黏液			
<i>/ˈmjuːkəs/</i>			
 goblet cell 杯状细胞			
<i>/ˈɡɒblət sel/</i>			
 mucous gland 黏液腺			
<i>/ˈmjuːkəs glænd/</i>			

Mathematics

Topic 5 · Probability & Statistics 1

 mode 众数			
<i>/məʊd/</i>			
 variation 离散程度			
<i>/ˌveəriˈeɪʃn/</i>			
 range (of data) 极差			
<i>/reɪndʒ/</i>			
 interquartile range 四分位距			
<i>/ˌɪntəˈkwɔːtəl reɪndʒ/</i>			
 standard deviation 标准差			
<i>/ˈstændəd ˌdiːvɪˈeɪʃn/</i>			
 variance 方差			
<i>/ˈveəriəns/</i>			
 permutation 排列			
<i>/ˌpɜːmjʊˈteɪʃn/</i>			
 combination 组合			
<i>/ˌkɒmbɪˈneɪʃn/</i>			
 mutually exclusive events 互斥事件			
<i>/ˈmjuːtʃuːəli ɛksˈkluːsɪv iˈvents/</i>			
 independent events 独立事件			
<i>/ˌɪndɪˈpendənt iˈvents/</i>			

Further Mathematics

Topic 4 · Further Probability & Statistics

 pooled estimate 合并估计			
/puːld 'estɪmət/			
 chi-squared test 卡方检验			
/kaɪ skweəd test/			
 theoretical distribution 理论分布			
/θɪə'retɪkl ˌdɪstrɪ'bjuːʃn/			
 degrees of freedom 自由度			
/di'grɪz əv 'friːdəm/			

Computer Science

Topics 1–12 · Information representation, Communication, Hardware, System Software, Algorithm Design and Problem-solving, Data Types and Structures, Programming, Software Development

 stub 桩			
/stʌb/			
 test strategy 测试策略			
/test 'strætədʒi/			
 test plan 测试计划			
/test plæn/			
 normal data 正常数据			
/'nɔːml 'deɪtə/			
 abnormal data 异常数据			
/əb'nɔːml 'deɪtə/			
 boundary data 边界数据			
/'baʊndəri 'deɪtə/			
 perfective maintenance 完善性维护			
/pə'fektɪv 'meɪntənəns/			
 adaptive maintenance 适应性维护			
/ə'dæptɪv 'meɪntənəns/			

 corrective maintenance 纠正性维护			
/kə'rektɪv 'meɪntənəns/			
 regression testing 回归测试			
/rɪ'ɡreʃn 'testɪŋ/			
 extreme data 极端数据			
/ek'strɪm 'deɪtə/			
 nibbles 半字节			
/'nɪblz/			
 drawing objects 绘图对象			
/'draʊɪŋ 'ɒbdʒekts/			
 primitives 图元			
/'prɪmɪtɪvz/			
 sample resolution 采样分辨率			
/'sæmpl ˌreʒə'lʊʃn/			
 bridge 网桥			
/brɪdʒ/			
 filament 塑料丝			
/'fɪləmənt/			
 diaphragm 膜片			
/'daɪəfræm/			
 lands 平台			
/lændz/			
 multitasking 多任务处理			
/'mʌltɪtæskɪŋ/			
 interrupts 中断			
/'ɪntərəpts/			
 signatures 签名			
/'sɪɡntʃəz/			
 portable 可移植的			
/'pɔːtəbl/			
 counter 计数器			
/'kaʊntə/			

↓	lower bound 下界			
	/ˈləʊə baʊnd/			
↑	upper bound 上界			
	/ˈʌpə baʊnd/			
+	insert 附页			
	/ˈɪnsɜːt/			
📊	trace table 跟踪表			
	/treɪs ˈteɪbl/			

Economics

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

↘	regressive tax 累退税			
	/rɪˈɡresɪv tæks/			
[]	expansionary 扩张性			
	/ekˈspænjənəri/			
[]	contractionary 紧缩性			
	/kənˈtrækʃənəri/			
👥	crowding out 挤出效应			
	/ˈkraʊdɪŋ aʊt/			
💰	monetary policy 货币政策			
	/ˈmʌntəri ˈpɒlɪsi/			
🏦	central bank 中央银行			
	/ˈsentrəl bæŋk/			
%	interest rate 利率			
	/ˈɪntrest reɪt/			
💵	money supply 货币供给			
	/ˈmʌni səˈplaɪ/			
⚙️	transmission mechanism 传导机制			
	/trænzˈmɪʃn ˈmekənɪzəm/			
📦	supply-side policy 供给侧政策			
	/səˈplaɪ saɪd ˈpɒlɪsi/			

🏠	privatisation 私有化			
	/ˌpraɪvətaɪˈzeɪʃn/			
🏠	deregulation 放松管制			
	/dɪˌregjʊˈleɪʃn/			
🎓	training 培训			
	/ˈtreɪnɪŋ/			
🏗️	infrastructure 基础设施			
	/ˈɪnfrastrʌktʃə/			
🌐	international trade 国际贸易			
	/ˌɪntəˈnæʃnəl treɪd/			