

Morning Reading 晨读

Grade 10 · Week 10

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。

A message says you have won a phone: just click the link and enter your password. Stop! This is **phishing**, a trick to steal your details. Criminals also use **malware**, harmful software such as a **virus**, or try a **brute force attack**, testing thousands of passwords until one works. Some do not attack computers at all; they trick people. That is **social engineering**. Good **cyber security** habits, such as strong passwords and careful clicking, protect you.

Why are factories so fast? Because of the **division of labour**. Each worker repeats one small job and becomes an expert at it. This **specialisation** raises **productivity**: more is made in the same time. Big factories also enjoy **economies of scale**, so each item costs less to make.

In physics you built an **electromagnet** this week: a coil of wire around soft iron. Switch on the current and it becomes a magnet; switch off and the magnetism is gone.

Talk about it 说一说:

- 1. A stranger's email asks for your password. What do you do, and why?
- 2. Making dumplings with your class: how would you divide the labour?

Physics

Topic 4 · Electricity and magnetism

 magnetic field 磁场			
/mæg'netik fi:ld/			
 magnetic field lines 磁场线			
/mæg'netik fi:ld laɪnz/			
 electric field 电场			
/i'lektrik fi:ld/			
 electric current 电流			
/i'lektrɪk 'kærənt/			
 conventional current 常规电流			
/kən'venʃənəl 'kærənt/			
 direct current 直流电			
/daɪ'rekt 'kærənt/			
 alternating current 交流电			
/ɒltəneɪtɪŋ 'kærənt/			
 electric charge 电荷			
/i'lektrɪk tʃɑ:dʒ/			
 positive charge 正电荷			
/pəzɪtɪv tʃɑ:dʒ/			
 negative charge 负电荷			
/neɡətɪv tʃɑ:dʒ/			
 point charge 点电荷			
/pɔɪnt tʃɑ:dʒ/			
 repel 排斥			
/rɪ'pel/			
 attract 吸引			
/ə'trækt/			
 induced magnetism 感应磁性			
/ɪn'dʒu:st 'mæɡnɪtɪzəm/			

 soft iron 软铁			
/soft 'aɪən/			
 iron filings 铁屑			
/ˈaɪən 'faɪlɪŋz/			
 soft-iron core 软铁芯			
/soft 'aɪən kɔː/			
 magnetise 磁化			
/ˈmæɡnɪtaɪz/			
 steel 钢			
/stiːl/			
 unmagnetised 未磁化			
/ʌnˈmæɡnɪtaɪzd/			
 region 区域			
/ˈriːdʒən/			
 compass 指南针			
/ˈkæmpəs/			
 electromagnet 电磁铁			
/ɪˌlektərəʊˈmæɡnɪt/			

Chemistry

Topic 7 · Acids, bases and salts

 carbon dioxide 二氧化碳			
/ˈkɔːbən daɪˈɒksaɪd/			
 indicator 指示剂			
/ˈɪndɪkeɪtə/			
 universal indicator 通用指示剂			
/ˌjuːniˈvɜːsl ˈɪndɪkeɪtə/			
 litmus 石蕊			
/ˈlɪtməs/			
 thymolphthalein 百里酚酞			
/ˈθaɪmɒlfθəˌeɪlɪn/			

 methyl orange 甲基橙			
/ˈmiːθaɪl ˈɒrɪndʒ/			
 oxides 氧化物			
/ˈɒksaɪdz/			
 hydroxides 氢氧化物			
/haɪˈdrɒksaɪdz/			
 alkali 可溶性碱			
/ˈælkəlaɪ/			
 base 碱			
/beɪs/			
 ammonium salts 铵盐			
/æˈməniəm sɒlts/			
 dissociated 电离			
/dɪˈsəʊsiəteɪd/			
 acidic 酸性			
/əˈsɪdɪk/			
neutral 中性			
/ˈnjuːtrəl/			
 alkaline 碱性			
/ˈælkəlaɪn/			
 amphoteric 两性			
/æmfəʊˈterɪk/			
 soluble 可溶			
/ˈsɒljubl/			
 insoluble 不溶			
/ɪnˈsɒljubl/			
 nitrates 硝酸盐			
/ˈnaɪtreɪts/			
 chlorides 氯化物			
/ˈklɔːraɪdz/			
 sulfates 硫酸盐			
/ˈsʌlfets/			
+ excess 过量			
/ekˈses/			

Biology

Topics 10–11 · Diseases and immunity, Gas exchange in humans

 disease 疾病			
<i>/diˈziːz/</i>			
 transmissible disease 传染病			
<i>/trænˈsmisibl diˈziːz/</i>			
 transmitted 传播			
<i>/trænˈsmɪtɪd/</i>			
 direct contact 直接接触			
<i>/daɪˈrekt ˈkɒntækt/</i>			
 body fluids 体液			
<i>ˈbɒdi ˈfluːɪdɪz/</i>			
 contaminated 污染			
<i>/kənˈtæmɪneɪtɪd/</i>			
 defences 防御			
<i>/diˈfensɪz/</i>			
 stomach acid 胃酸			
<i>ˈstʌmək ˈæsɪd/</i>			
 hygienic 卫生			
<i>/haɪˈdʒiːnɪk/</i>			
 sewage treatment 污水处理			
<i>ˈsuːɪdʒ ˈtriːtmənt/</i>			
 antigens 抗原			
<i>ˈæntɪdʒənɪz/</i>			
 active immunity 主动免疫			
<i>ˈæktɪv ɪˈmjʊnɪti/</i>			
 vaccination 疫苗接种			
<i>ˌvæksɪˈneɪʃn/</i>			
 memory cells 记忆细胞			
<i>ˈmeməri selz/</i>			

 passive immunity 被动免疫			
<i>ˈpæsɪv ɪˈmjʊnɪti/</i>			
 placenta 胎盘			
<i>ˈplʌˈsenta/</i>			
 breast milk 母乳			
<i>ˈbreɪst mɪlk/</i>			
 breast-feeding 母乳喂养			
<i>ˈbreɪst ˈfiːdɪŋ/</i>			
 infants 婴儿			
<i>ˈɪnfənts/</i>			
 cholera 霍乱			
<i>ˈkɒlərə/</i>			
 toxin 毒素			
<i>ˈtɒksɪn/</i>			
 chloride ions 氯离子			
<i>ˈklɒːraɪd ˈaɪənz/</i>			
 diarrhoea 腹泻			
<i>ˌdaɪəˈrɪə/</i>			
 dehydration 脱水			
<i>ˌdɪːhaɪˈdreɪʃn/</i>			
 ventilation 通气			
<i>ˌventɪˈleɪʃn/</i>			
 larynx 喉			
<i>ˈlærɪŋks/</i>			
 bronchioles 细支气管			
<i>ˈbrɒŋkɪəʊlz/</i>			
 alveoli 肺泡			
<i>ˈælvɪnəli/</i>			
 ribs 肋骨			
<i>ˈrɪbz/</i>			
 diaphragm 膈肌			
<i>ˈdaɪəfræm/</i>			

 intercostal muscles 肋间肌			
<i>/ˌɪntə'kɒstl 'mʌslz/</i>			
 cartilage 软骨			
<i>/'kɑːtlɪdʒ/</i>			
 thorax 胸腔			
<i>/'θɔːræks/</i>			
↓ inhaling 吸气			
<i>/ɪn'heɪlɪŋ/</i>			
↑ exhaling 呼气			
<i>/eks'heɪlɪŋ/</i>			
 limewater 石灰水			
<i>/'laɪmwɔːtə/</i>			
 brain 大脑			
<i>/breɪn/</i>			

Mathematics

Topic 4 · Geometry

 corresponding angles 同位角			
<i>/ˌkɒrɪ'spɒndɪŋ 'æŋɡlz/</i>			
↗ alternate angles 内错角			
<i>/ɔːl'tɜːnət 'æŋɡlz/</i>			
[] co-interior angles 同旁内角			
<i>/kəʊ ɪn'tɪəriə 'æŋɡlz/</i>			
⊕ supplementary 互补			
<i>/səplɪ'mentəri/</i>			
△ triangle 三角形			
<i>/'traɪæŋɡl/</i>			
△ equilateral 等边			
<i>/'ɛkwɪ'lætərəl/</i>			
∟ isosceles 等腰			
<i>/aɪ'sɒsəliːz/</i>			

∟ scalene 不等边			
<i>/'skeɪlɪn/</i>			
□ quadrilateral 四边形			
<i>/'kwɒdrɪ'lætərəl/</i>			
□ square 正方形			
<i>/skweə/</i>			
▭ rectangle 矩形			
<i>/'rektæŋɡl/</i>			
▭ parallelogram 平行四边形			
<i>/'pærə'lelɒɡræm/</i>			
◇ rhombus 菱形			
<i>/'rɒmbəs/</i>			
▭ kite 鸢形			
<i>/kaɪt/</i>			
▭ trapezium 梯形			
<i>/'trə'piːziəm/</i>			
⬠ polygon 多边形			
<i>/'pɒlɪɡən/</i>			

Computer Science

Topic 5 · The internet and its uses

 malware 恶意软件			
<i>/'mælweə/</i>			
 pharming 域名欺骗			
<i>/'fɑːmɪŋ/</i>			
 phishing 网络钓鱼			
<i>/'fɪʃɪŋ/</i>			
 social engineering 社会工程			
<i>/'səʊʃl ɛndʒɪ'niəriŋ/</i>			
 virus 病毒			
<i>/'vaɪrəs/</i>			
 worm 蠕虫			
<i>/'wɜːm/</i>			

 Trojan horse 特洛伊木马			
<i>/ˈtrɒdʒn ho:s/</i>			
 spyware 间谍软件			
<i>/ˈspaɪweə/</i>			
 adware 广告软件			
<i>/ˈædweə/</i>			
 ransomware 勒索软件			
<i>/ˈrænsəmweə/</i>			
 access levels 访问权限			
<i>/ˈækses ˈlevlz/</i>			
 anti-malware 反恶意软件			
<i>/ˈænti ˈmælweə/</i>			
 anti-virus 杀毒软件			
<i>/ˈænti ˈvaɪrəs/</i>			
 anti-spyware 反间谍软件			
<i>/ˈænti ˈspaɪweə/</i>			
 authentication 身份验证			
<i>/ɔːθenɪˈkeɪʃn/</i>			
 biometrics 生物识别			
<i>/ˌbaɪəʊˈmetrɪks/</i>			
 password 密码			
<i>/ˈpæswɜːd/</i>			
 two-step verification 两步验证			
<i>/tuː step ˌverɪfɪˈkeɪʃn/</i>			
 firewall 防火墙			
<i>/ˈfaɪəwɔːl/</i>			
 privacy settings 隐私设置			
<i>/ˈprɪvəsi ˈsetɪŋz/</i>			

Economics

Topic 3 · Microeconomic decision-makers

 merger 合并			
<i>/ˈmɜːdʒə/</i>			
 horizontal merger 横向合并			
<i>/ˌhɒrɪˈzɒntl ˈmɜːdʒə/</i>			
 vertical merger 纵向合并			
<i>/ˈvɜːtɪkl ˈmɜːdʒə/</i>			
 conglomerate merger 混合合并			
<i>/kənˈglɒməreɪt ˈmɜːdʒə/</i>			
 business failure 企业倒闭			
<i>/ˈbɪznəs ˈfeɪlɪə/</i>			
 labour-intensive 劳动密集型			
<i>/ˈleɪbə ɪnˈtensɪv/</i>			
 capital-intensive 资本密集型			
<i>/ˈkæpɪtl ɪnˈtensɪv/</i>			
 productivity 生产率			
<i>/ˌprɒdəkˈtɪvɪti/</i>			
 economies of scale 规模经济			
<i>/ɪˈkɒnəmɪz əv skeɪl/</i>			
 diseconomies of scale 规模不经济			
<i>/dɪsɪˈkɒnəmɪz əv skeɪl/</i>			
 cost 成本			
<i>/kɒst/</i>			
 fixed costs 固定成本			
<i>/fɪkst kɒsts/</i>			
 variable costs 可变成本			
<i>/ˈveəriəbl kɒsts/</i>			
 total cost 总成本			
<i>/ˈtəʊtl kɒst/</i>			

English

Topics 5-6 · Writing a report, Writing an article

 headings 小标题			
<i>/ˈhedɪŋz/</i>			
 opinion 观点			
<i>/əˈpɪniən/</i>			
 recommendations 建议			
<i>/ˌrekəmenˈdeɪʃnz/</i>			
 conclusion 结论			
<i>/kənˈkluːʒn/</i>			
 article 文章			
<i>/ˈɑːtɪkl/</i>			
 informs 告知			
<i>/ɪnˈfɔːmz/</i>			
 entertains 娱乐			
<i>/entəˈteɪnz/</i>			