
Morning Reading

Grade 10 · Week 10

Read each word aloud, then copy the English word three times.

Reading

Read the passage aloud twice.

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 :

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**

/mæg'netik fi:ld/

 **magnetic field lines**

/mæg'netik fi:ld laɪnz/

 **electric field**

/ɪ'lektrɪk fi:ld/

 **electric current**

/ɪ'lektrɪk 'kʌrənt/

 **conventional current**

/kən'venʃənl 'kʌrənt/

 **direct current**

/daɪ'rekt 'kʌrənt/

 **alternating current**

/ɔ:ltəneɪtɪŋ 'kʌrənt/

 **electric charge**

/ɪ'lektrɪk tʃɑ:dʒ/

 **positive charge**

/ɪ'pɒzətɪv tʃɑ:dʒ/

 **negative charge**

/ɪ'negətɪv tʃɑ:dʒ/

 **point charge**

/pɔɪnt tʃɑ:dʒ/

 **repel**

/rɪ'pel/

 **attract**

/ə'trækt/

 **induced magnetism**

/ɪn'dʒu:st 'mæɡnɪtɪzəm/

 **soft iron**

/sɒft 'aɪən/

☐ iron filings

/ˈaɪən ˈfaɪlɪŋz/

⊙ soft-iron core

/sɒft ˈaɪən kɔː/

🧲 magnetise

/ˈmæɡnɪtaɪz/

💎 steel

/stiːl/

🚫 unmagnetised

/ʌnˈmæɡnɪtaɪzd/

☐ region

/ˈriːdʒn/

⊙ compass

/ˈkʌmpəs/

🧲 electromagnet

/ɪˌlektərəʊˈmæɡnɪt/

Chemistry

Topic 7 · Acids, bases and salts

☁ carbon dioxide

/ˈkɑːbən daɪˈɒksaɪd/

🧠 indicator

/ˈɪndɪkeɪtə/

🌐 universal indicator

/juːnɪˈvɜːsl ˈɪndɪkeɪtə/

☐ litmus

/ˈlɪtməs/

🧠 thymolphthalein

/ˈθaɪmɒlfθæliːn/

🧠 methyl orange

/ˈmiːθaɪl ˈɒrɪndʒ/

⊗ oxides

/ˈɒksaɪdz/

 hydroxides /haɪ'drɒksaɪdz/			
 alkali /'ælkəlaɪ/			
 base /beɪs/			
 ammonium salts /æ'mɒniəm sɒlts/			
 dissociated /dɪ'səʊsi'eɪtɪd/			
 acidic /ə'sɪdɪk/			
 neutral /'nju:trəl/			
 alkaline /'ælkəlaɪn/			
 amphoteric /æmfəʊ'terɪk/			
 soluble /'sɒljʊ:bl/			
 insoluble /ɪn'sɒljʊ:bl/			
 nitrates /'naɪtreɪts/			
 chlorides /'klɔ:raɪdz/			
 sulfates /'sʌlfeɪts/			
 excess /ek'ses/			

Biology

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

 **disease**

/diˈzi:z/

 **transmissible disease**

/trænˈsmɪsɪbl diˈzi:z/

 **transmitted**

/trænˈsmɪtɪd/

 **direct contact**

/daɪˈrekt ˈkɒntækt/

 **body fluids**

/ˈbɒdi ˈfluːɪdz/

 **contaminated**

/kənˈtæmɪneɪtɪd/

 **defences**

/dɪˈfensɪz/

 **stomach acid**

/ˈstʌmək ˈæsɪd/

 **hygienic**

/haɪˈdʒiːnɪk/

 **sewage treatment**

/ˈsuːɪdʒ ˈtri:tmənt/

 **antigens**

/ˈæntɪdʒenz/

 **active immunity**

/ˈæktɪv ɪˈmjuːnɪti/

 **vaccination**

/ˌvæksɪˈneɪʃn/

 **memory cells**

/ˈmeməri selz/

 **passive immunity**

/ˈpæsɪv ɪˈmjuːnɪti/

 placenta /plə'sentə/			
 breast milk /brest milk/			
 breast-feeding /brest 'fi:diŋ/			
 infants /'ɪnfənts/			
 cholera /'kɒlərə/			
 toxin /'tɒksɪn/			
 chloride ions /'klɔ:raɪd 'aɪənz/			
 diarrhoea /ˌdaɪə'riə/			
 dehydration /ˌdi:haɪ'dreɪʃn/			
 ventilation /ˌventɪ'leɪʃn/			
 larynx /'lærɪŋks/			
 bronchioles /'brɒŋkiəʊlz/			
 alveoli /'ælvəli/			
 ribs /rɪbz/			
 diaphragm /'daɪəfræm/			
 intercostal muscles /ˌɪntə'kɒstl 'mʌslz/			
 cartilage /'kɑ:tɪlɪdʒ/			

 thorax <i>/ˈθɔːræks/</i>			
↓ inhaling <i>/ɪnˈheɪlɪŋ/</i>			
↑ exhaling <i>/eksˈheɪlɪŋ/</i>			
 limewater <i>/ˈlaɪmwɔːtə/</i>			
 brain <i>/breɪn/</i>			

Mathematics

Topic 4 · Geometry

 corresponding angles <i>/ˌkɒrɪˈspɒndɪŋ ˈæŋɡlz/</i>			
 alternate angles <i>/ɔːlˈtɜːnət ˈæŋɡlz/</i>			
[] co-interior angles <i>/kəʊ ɪnˈtɪəriə ˈæŋɡlz/</i>			
⊕ supplementary <i>/ˌsʌplɪˈmentəri/</i>			
△ triangle <i>/ˈtraɪæŋɡl/</i>			
△ equilateral <i>/ˌiːkwɪˈlætərəl/</i>			
△ isosceles <i>/aɪˈsɒsəliːz/</i>			
△ scalene <i>/ˈskeɪlɪn/</i>			
□ quadrilateral <i>/ˌkwɒdrɪˈlætərəl/</i>			
□ square <i>/skweə/</i>			

 rectangle /'rektæŋgl/			
 parallelogram /ˌpærəˈleləgræm/			
 rhombus /'rɒmbəs/			
 kite /kaɪt/			
 trapezium /trəˈpiːziəm/			
 polygon /'pɒlɪɡən/			

Computer Science

Topic 5 · The internet and its uses

 malware /'mælweə/			
 pharming /'fɑːmɪŋ/			
 phishing /'fɪʃɪŋ/			
 social engineering /'səʊʃl ˌendʒɪˈniəriŋ/			
 virus /'vaɪrəs/			
 worm /wɜːm/			
 Trojan horse /'trəʊdʒn hɔːs/			
 spyware /'spaɪweə/			
 adware /'ædweə/			

	ransomware /'rænsəmweə/			
	access levels /'ækses 'levlz/			
	anti-malware /'ænti 'mælweə/			
	anti-virus /'ænti 'vairəs/			
	anti-spyware /'ænti 'spaiweə/			
	authentication /ɔːθenti'keɪʃn/			
	biometrics /ˌbaɪəʊ'metɪks/			
	* password /'pæswɜːd/			
	two-step verification /tuː step ˌverɪfɪ'keɪʃn/			
	firewall /'faɪəwɔːl/			
	privacy settings /'prɪvəsi 'setɪŋz/			

Economics

Topic 3 · Microeconomic decision-makers

	merger /'mɜːdʒə/			
	horizontal merger /ˌhɒrɪ'zɒntl 'mɜːdʒə/			
	vertical merger /'vɜːtɪkl 'mɜːdʒə/			
	conglomerate merger /kən'glɒməreɪt 'mɜːdʒə/			

 business failure /'biznəs 'feɪlɪə/			
 labour-intensive /'leɪbə ɪn'tensɪv/			
 capital-intensive /'kæpɪtl ɪn'tensɪv/			
 productivity /ˌprɒdæk'tɪvɪti/			
 economies of scale /ɪ'kɒnəmɪz ɒv skeɪl/			
 diseconomies of scale /ˌdɪsɪ'kɒnəmɪz ɒv skeɪl/			
 cost /kɒst/			
 fixed costs /fɪkst kɒsts/			
 variable costs /'veəriəbl kɒsts/			
 total cost /'təʊtl kɒst/			

English

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

 headings /'hedɪŋz/			
 opinion /ə'pɪniən/			
 recommendations /ˌrekəmen'deɪʃnz/			
 conclusion /kən'kluːʒn/			
 article /'ɑːtɪkl/			

