
Morning Reading

Grade 10 · Week 17

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

Reading

Read the passage aloud twice.

Hundreds of machines fly silently above your head. A **satellite** is any object that orbits a planet. The Moon is a natural one; the others we built and launched. They stay in orbit because **gravity** keeps pulling them towards the Earth while they move forward at great speed. Satellites carry phone calls, take weather photos, and tell your map app exactly where you are.

Satellites collect mountains of data, and data needs a home. A **database** stores information in an organised way. Each row is a **record**, for example one weather station. Programs read the data from a **file** or search the database directly.

Trade now connects the whole planet; we call this **globalisation**. A **multinational company** makes phones in one country, writes software in another, and sells everywhere. Some governments use **trade protection**: a **tariff** taxes imports to make them dearer, and a **quota** limits how many may enter. Supporters of **free trade** say open markets make goods cheaper for everyone.

Talk about it :

1. Your phone map knows where you are. How do satellites make this possible?
2. A tariff makes imported shoes expensive. Who wins and who loses?

Physics

Topic 6 · Space physics

 **orbital speed**

/ˈɔːbɪtəl spiːd/

 **Solar System**

/ˈsəʊlə ˈsɪstəm/

 **planet**

/ˈplænit/

 **dwarf planet**
/dwɔːf 'plænit/

 **white dwarf**
/waɪt dwɔːf/

 **rocky**
/'rɒki/

 **gaseous**
/'geɪsiəs/

 **gas giant**
/gæs 'dʒaɪənt/

 **ice giant**
/aɪs 'dʒaɪənt/

 **red giant**
/red 'dʒaɪənt/

 **asteroid**
/'æstərɔɪd/

 **satellite**
/'sætələɪt/

 **comet**
/'kɒmɪt/

 **gravity**
/'grævɪti/

 **gravitational potential energy**
/ˌgrævɪ'teɪʃənl pə'tenʃl 'enədʒi/

 **conservation of energy**
/ˌkɒnsə'veɪʃn ɒv 'enədʒi/

 **ellipse**
/'ɪlɪps/

 **dust**
/dʌst/

 **element**
/'elɪmənt/

 **accretion**
/ə'kreɪʃn/

 **accretion disc**

/ə'kreɪʃn dɪsk/

 **star**

/staː/

Chemistry

Topics 11–12 · Organic chemistry, Experimental techniques and chemical analysis

 **monomers**

/ˈmɒnəʊməz/

 **repeat unit**

/rɪ'pi:t 'juːnɪt/

 **Polyamides**

/ˌpɒlɪ'eɪməɪdz/

 **Nylon**

/ˈnaɪlɒn/

 **Polyesters**

/ˌpɒlɪ'estəz/

 **Plastics**

/ˈplæstɪks/

 **landfill**

/ˈlændfɪl/

 **Proteins**

/ˈprəʊtiːnz/

 **stop-watch**

/stɒp wɒtʃ/

 **thermometer**

/θɜː'mɒmɪtə/

 **balance**

/ˈbæləns/

 **measuring cylinder**

/ˈmeʒərɪŋ 'sɪlɪndə/

 **burette**

/bjʊə'ret/

 **volumetric pipette**
/ˌvɒljʊː'metrik pi'pet/

 **gas syringe**
/gæs si'rɪndʒ/

 **saturated solution**
/'sætʃəreɪtɪd sə'luːʃn/

 **residue**
/'resɪdjuː/

 **filtrate**
/'fɪltreɪt/

 **end-point**
/end pɔɪnt/

 **paper chromatography**
/'peɪpə krəʊmə'tɒɡrəfi/

 **locating agent**
/ləʊ'keɪtɪŋ 'eɪdʒənt/

Biology

Topics 19–20 · Organisms and their environment, Human influences on ecosystems

 **foreign species**
/'fɒrən 'spiːsiːz/

 **carbon cycle**
/'kɑːbən 'saɪkl/

 **combustion**
/kəm'bastʃn/

 **fossil fuels**
/'fɒsl 'fjuːəlz/

 **nitrogen cycle**
/'naɪtrədʒn 'saɪkl/

 **ammonium ions**
/æ'məʊniəm 'aɪənz/

 **nitrification**
/ˌnaɪtrɪfɪ'keɪʃn/

 **nitrogen fixation**

/ˈnaɪtrədʒn fɪk'seɪʃn/

 **denitrification**

/diːˌnaɪtrɪfɪ'keɪʃn/

 **population**

/ˌpɒpjʊ'leɪʃn/

 **community**

/kə'mjuːnɪti/

 **ecosystem**

/ˈiːkəʊsɪstəm/

 **predation**

/prɪ'deɪʃn/

 **lag phase**

/læɡ feɪz/

 **exponential phase**

/ˌekspə'nenʃl feɪz/

 **stationary phase**

/ˈsteɪʃənəri feɪz/

 **death phase**

/deθ feɪz/

 **fertilisers**

/ˈfɜːtəlaɪzəz/

 **yields**

/jiːldz/

 **insecticides**

/ˌɪn'sektɪsaɪdz/

 **herbicides**

/ˈhɜːbɪsaɪdz/

 **weeds**

/wiːdz/

 **livestock**

/ˈlaɪvstɒk/

 **monoculture**

/ˈmɒnəʊkʌltʃə/

 **biodiversity**

/ˌbaɪəʊdaɪ'vɜːsɪti/

 **habitats**

/'hæbɪtæts/

 **pollution**

/pə'luːʃn/

 **deforestation**

/diːˌfɒrɪ'steɪʃn/

 **extinction**

/ek'stɪŋkʃn/

 **sewage**

/'suːɪdʒ/

 **eutrophication**

/juːtrəfi'keɪʃn/

Mathematics

Topics 8–9 · Probability, Statistics

 **with replacement**

/wɪð rɪ'pleɪsmənt/

 **without replacement**

/wɪ'ðaʊt rɪ'pleɪsmənt/

 **conditional probability**

/kən'dɪʃənl ˌprɒbə'bɪləti/

 **statistical**

/stə'tɪstɪkl/

 **data**

/'deɪtə/

 **tally table**

/'tæli 'teɪbl/

 **two-way table**

/tuː weɪ 'teɪbl/

 **mean**

/miːn/

 **median**
/'mi:di:ən/

 **mode**
/məʊd/

 **frequency**
/'fri:kwənsi/

 **grouped data**
/gru:pt 'deɪtə/

 **modal class**
/'məʊdl klæs/

 **quartile**
/'kwɔ:tail/

 **interquartile range**
/,ɪntə'kwɔ:tail reɪndʒ/

 **bar chart**
/bɑ: tʃɑ:t/

Computer Science

Topics 2–10 · Data transmission, Databases, Boolean logic

 **unique**
/ju:'ni:k/

 **structured query language**
/'strʌktʃəd 'kwɪəri 'læŋgwɪdʒ/

 **query**
/'kwɪəri/

 **condition**
/kən'dɪʃn/

 **ascending**
/ə'sendɪŋ/

 **descending**
/dɪ'sendɪŋ/

 **Boolean logic**
/'bu:liən 'lədʒɪk/

 **truth table**

/tru:θ 'teɪbl/

 **NOT gate**

/nɒt geɪt/

 **AND gate**

/ænd geɪt/

 **OR gate**

/ɔ: geɪt/

 **NAND gate**

/nænd geɪt/

 **NOR gate**

/nɔ: geɪt/

 **XOR gate**

/'eksɔ: geɪt/

() logic expression

/'lɒdʒɪk ek'spreʃn/

 **logic circuit**

/'lɒdʒɪk 'sɜ:kɪt/

 **problem statement**

/'prɒbləm 'steɪtmənt/

 **parity block**

/'pærɪti blɒk/

 **parity byte**

/'pærɪti baɪt/

Economics

Topic 6 · International trade and globalisation

 **dependent**

/dɪ'pendənt/

 **globalisation**

/,glɔ:bəlaɪ'zeɪʃn/

 **multinational company**

/ˌmʌltɪ'næʃənl 'kʌmpəni/

 host country /həʊst 'kʌntri/			
 trade protection /treɪd prə'tekʃn/			
 tariff /'tærɪf/			
 quota /'kwəʊtə/			
 embargo /em'ba:gəʊ/			
 infant industry /'ɪnfənt 'ɪndʌstri/			
 dumping /'dʌmpɪŋ/			
 exchange rate /eks'tʃeɪndʒ reɪt/			
 currency /'kʌrənsɪ/			
 floating exchange rate /'fləʊtɪŋ eks'tʃeɪndʒ reɪt/			
 appreciation /əˌpri:ʃi'eɪʃn/			

English

Topics 5–7 · Writing a report, Writing an article, Writing a review

 solution /sə'lu:ʃn/			
 flat /flæt/			
 decide /dɪ'saɪd/			
 believable /br'i:əvəbl/			

 **criticise**
/'kɹɪtɪsaɪz/

 **fair**
/feə/
