

Word	Word Family	Collocations	Example sentence	Synonyms	Antonyms	Other
alkali (n)			p.54 After the hot water and fat are boiled, and then distilled; the alkali , or potash, and perfume are added, to make soap.	a base(chemistry: ph>7)	An acid(chemistry: ph<7)	مادة قلوية كيميائية
amplifier (n)			p.53 Next, (the voice waves) are made stronger by passing them through an amplifier .			مكبر الصوت
atmosphere (n)			p.54 The Earth's atmosphere is the area of gas (oxygen, nitrogen, etc.) surrounding the sphere of the Earth, within ten miles from its surface.			الجوّ ، الهواء
continual (adj)			p.167 Oxford Word Power "His continual phone calls started to annoy her."			مستمر
destinations (n)			p.213 Oxford Word Power "I finally reached my destination two hours late."			نهاية السفر

dramatic (adj)			Macmillan Online Dictionary "There was a dramatic increase in sales after Apple introduced the iPhone."	sudden spectacular		مفجع . رائع
fluctuate (adj)			The currency trader was able to make a profit by putting his money in and taking it out according to the fluctuations in the market.			تَذْبُذِبُ ، تَقَلَّبُ
detailed (adj)			There were detailed instructions for putting together the transistor radio kit.			بتفصيل , منفصل
distil (v)			p.54 The hot water and fat are mixed together. Then the mixture is distilled .			قَطَّرَ ، اسْتَقَطَّرَ ؛
dynamite (n)			p.55 Where in the index would you find the invention of dynamite , the explosive that is used to blast rocks out.			دِينَامَيْت

electronic (adj)			p.53 Firstly, in the studio the voices and music are turned into electronic signals, called 'voice waves'.			كَهْرَبَائِي
expand (v)			p.54 Read the notes about the soap-making process. Expand them into full sentences using the verbs in brackets in the passive.			وَسَّعَ ، مَدَّدَ
Word	Word Family	Collocations	Example sentence	Synonyms	Antonyms	Other
focused (adj)			The camera lens wasn't focused , so the picture wasn't in focus.			اَمْضَبُوطَة (تصوير)
freely (adv)			p.52 The sound quality is good and you can move freely as you speak.			حرًا
infrastructure (n)			p.57 Many countries are developing high speed trains as part of their public transport infrastructure .	Structure (n) بِنَاء ، هَيْكَل		infra (prefix in combination) بَادِئَةٌ بِمَعْنَى تَحْتَ أَوْ دُونَ

<p>invention (n)</p>			<p>P.54 The Past Simple Passive is often used to talk about inventions and discoveries: <i>was/were + past participle</i> <i>Radio was invented by Guglielmo Marconi.</i></p>			<p>إِخْتِرَاعٌ، اِبْتِكَارٌ</p>
<p>invisible (adj)</p>			<p>p.53 However, radio waves, which are invisible and undetectable to humans, have changed the world completely.</p>			<p>خَفِيٌّ أَوْ غَائِبٌ عَنِ الْأَنْظَارِ، غَيْرٌ مَرِيٍّ</p>
<p>means (n)</p>			<p>p.53 Until television became widespread, radio was one of the basic means of communication and entertainment.</p>			<p>وَاسِطَةٌ ، وَسَاطَةٌ ، وَسِيْلَةٌ (وَسَائِلٌ)</p>

melt (v)			p.54 Next, this mixture is melted in a furnace.			ذَابَ
neutral (adj)			p.54 When describing a process or a scientific experiment, it is important to write in a neutral style, as an observer.			محايد، حيادي، على الحياد
observer (n)			p.54 When describing a process or a scientific experiment, it is important to write in a neutral style, as an observer .			مراقب، راصد
overview (n)			p.52 Skim the text including the title and any diagrams or tables, to get an overview .			منظر عام
pack (v)			p.54 Finally, the blocks of soap are cut, wrapped, and packed .	prepared in a pack		طعام او صابون مُعَدّ لحمله في علبة مثلاً

pass through (v)			p.54 They are first turned back into voice waves, then passed through another amplifier, and finally sent out through speakers or headphones	let through, get through		عَبَرَ ، اجْتَازَ
Word	Word Family	Collocations	Example sentence	Synonyms	Antonyms	Other
receive (v)				to accept, to have given one		اِسْتَلِمَ ، تَقَبَّلَ
recycle (v)			p.54 A lot of paper is recycled these days.			أعاد التطوير
reverse (v)	Reverse (adj) p.54 عكسي After this, the radio waves go through a reverse process.		He walked straight up to the director, but then he reversed and went back to his work without saying anything.	to turn around , to invert, to go backwards		قَلَبَ ، عَكَسَ (الترتيب مثلاً)

roll (v)			p.54 The mixture is rolled , dried, and compressed.			أدار، دحرج (البرميل)
self-motivated (adj)			p.57 Interviewers often look for students who are self-motivated as well as highly-qualified.	self-assertive		مُصِرٌّ على دعواه
transistor (n)			p.53 The simple transistor radio may seem a little old-fashioned in these days of mobile phones, laptop computers, and iPods.			الترانزستور (الالكترونيات)
undetectable (adj)			p.53 However, radio waves, which are invisible and undetectable to humans, have changed the world completely.		Detectable (adj) يمكن اكتشافه	لا يمكن اكتشافه

widespread (adj)			p.53 Until television became widespread , radio was one of the basic means of communication and entertainment.			شَائِع ، وَاسِعِ الْإِنْتِشَارِ
wrap (v)			p.54 In the fifth and last stage, the bars of soap are cut, wrapped , and packed.			لَفَّ ، غَلَّفَ