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| **Word** | **Word Family** | **Collocations** | **Example sentence** | **Synonyms** | **Antonyms** | **Other** |
| analyst (n) |  |  | You are going to hear two defence **analysts** on a radio current affairs programme. They are discussing future defence technology. p.94 |  |  | محلّل |
| armoured (adj) |  |  | *Rockets are mounted* on *the back of an armoured*  *Vehicle .p.94* |  |  | (سيارة) مصقَّحة |
| ballistic (adj) |  | ballistic missile مقذوف جرخي | At the front of the machine below the boom there is a **ballistic** cover to protect the robot. At both sides there are caterpillar tracks. p.95 |  |  | جرْخي (خاص بالمَرمِيات) |
| countermeasure (n) |  |  | It can be combined with blue laser light so that **countermeasures** such as goggles are ineffective. p.96 |  |  | عمل إنتقامي . إجراء مُضادّ |
| current affairs (n) |  |  | You are going to hear two defence analysts on a radio **current affairs** programme. They are discussing future defence technology. p.94 |  |  | الاحداث الجارية |
| emit (v) |  |  | The gas turbine exhaust outlets are close to the water surface so that the heat they **emit** cannot easily be detected. p.93 |  |  | يصدر . يطلق |
| ferry (n) |  |  | He came down the other side to the harbor at Z and went onto the **ferry** for Y at 15.05. p.95 |  |  | معدية (مركب) |
| hacker (n) |  |  | A **hacker** is a person who gains access to a computer system without permission in order to steal data,etc. p.133 |  |  | من بسترق معلومات من  كمبيوتر |
| harbour (n) |  |  | Bow thrusters are fitted to make it easier to  manoeuvre the shi p in **harbour**. p.93 |  |  | ميناء |
| high-tech (adj) |  |  | I'm not totally convinced by this. There are  problems with **high-tech** systems. Very  complex electronics can fail.p.129 These **high-tech** systems are designed for wars rather than peacekeeping operations like this. p.130 |  |  | بإستعمال التكنولوجيا  المُتفوقة |
| hull (n) |  |  | The **hull** is the main, bottom part of a ship, that goes in the waterp.133 *Visby*: The **hull** is made of carbon fibre reinforced plastic  (CFRP). |  |  | نصبة خارجية (او هيكل خارجي) لطائرة (او)  سفينة |
| integrate |  |  | The system is designed to allow for future technologies to be **integrated** easily. p.93 |  |  | يدمج . يندمج |
| **Word** | **Word Family** | **Collocations** | **Example sentence** | **Synonyms** | **Antonyms** | **Other** |
| launch (v) |  |  | The *Visby can***launch** remotely-operated vehicles  *(ROVs)* to detect and classify mines. p.93 |  |  | ينزل الى الماء . يدشن (سفينة) يطلق (ساروخ) |
| layout (n) |  |  | Decide on the **layout**. Print out your texts and graphics and fix them to your poster. p.97 |  |  | مخطط . تسميم . ترتيب |
| minimize (v) |  |  | *To* ***minimize***means toreduce something to the lowest possible level.p.133 |  |  | يقلل الى الحد الأدنى .  يصغّر |
| non-lethal (adj) |  |  | **non-lethal** means, “not causing death”. p.133 Work in pairs,A and B. List forms of technology which could be used in **non-lethal** weapons to control hostile crowds without causing serious injuries. p.96 |  |  | غير مُمِيت . غير قتَّال |
| poster |  |  | Research your topic. You are going to use the  information you find to make a **poster** presentation. In addition to your college library, you can search for online sources. p.96 |  |  | صورة كبيرة او اعلان  في مكان عام |
| preposition |  |  | Many **prepositions** of place can also describe  movement, depending on the verb used. For example: Place: *The multi-purpose gun* is *under a*  *special cover.* Movement: *The multi-purpose gun* is *placed under a special cover when not in use.*  Other examples are: *above, across, opposite, over. p.121* |  |  | حرف جر (ابن مالك)  هاك حروف الجر وهي: من، إلى  حتى، خلا، حاشا، عدا، في، عن، على  مذ، منذ، رُب، اللام، كي، واو، وتا  والكاف، والباء، ولعل، ومتى |
| prone position (adj, n) |  |  | It has the abilityto hide and move while in **prone position**. p.96 |  |  | منْبطِح على وجهه |
| radar (n) |  |  | **Radar** is a system that uses radio waves to find the position and movement of planes, ships, etc. p.134 It has a low **radar** signature, meaning that it is more difficult to detect by **radar**. p.93 |  |  | الرادار |
| rescue (n) |  |  | Bear. Battlefield Extraction-Assist Robot is designed to **rescue** wounded soldiers from the battlefield. p.96 |  |  | إستنقذ . خلّص |
| signature (n) |  |  | It has a low radar **signature**, meaning that it is more difficult to detect by radar. p.93 |  |  | توقيع . إمصاء |
| sonar (n) |  |  | **Sonar** is a system for finding objects underwater using sound waves. p.134 |  |  | مِسْيار صوتي = جهاز للكصف عن زجود شيء  تحت الماء باتعكاس  موجات الصوت |
| stealth (adj) |  | stealth bomber طائرة (امريكية) حربية لا تنكشفها الرادار | **Stealth** is an adjective (used about an aircraft,a ship, etc), meaning, “designed with technology that prevents it from being seen by radar, sonar, etc.”p.135 Visby is the first warship to use fully-developed **stealth** technology. It has been designed to avoid detection in every possible way. p.92 |  |  | مسارقة . سَرِقة |
| trigger (v) |  |  | It also has a low magnetic signature, so is less likely to **trigger** magnetic mines. p.93 |  |  | يؤثدث . يشغّل زناد اللغْم |
| uncrewed (adj) |  |  | Information will be fed into the network from UAVs, **uncrewed** aerial vehicles, robotic sensors, and robotic seekers which will act as scouts locating enemy positions. p.129 |  |  | بدون جماعة من الملحين |
| unmanned (adj) |  |  | Many of the vehicles used will be **unmanned** and  will have camouflage paint which can change its colour according to its location. p.129 |  |  | يشتغل بدو رجال |
| visible (adj) |  |  | **Visible** means able to be seen. p.135 |  |  | ظاهر |
| warship (n) |  |  | A **warship** is a ship used in war. p.135 |  |  | سفينة حربية |
| weapon (n) |  |  | A number of companies are developing non-lethal laser **weapons** for riot control and peace-keeping operations. p.96 |  |  | سلاح |