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| **Q** | **Indicative content** | **Marks** | **Guidance** |
| 1 | **Mark Band 4 (10-12 marks)**   * An excellent explanation, which shows:   + thorough knowledge and understanding of the term Internet of Things (IoT) and/or smart devices.   + an excellent description of a wide range of smart devices for the home and strong knowledge of the impact this will have on homeowners. * Writing is very well structured and organised, using accurate grammar, punctuation and spelling. * A range of specialist terminology is used with accuracy.   **Mark Band 3 (7-9 marks)**   * A good explanation, which shows:   + generally secure knowledge and understanding of the term Internet of Things (IoT) and/or smart devices.   + A good description of some smart devices for the home and some good knowledge of the impact this will have on homeowners. * Writing is generally well structured and organised, using mainly accurate grammar, punctuation and spelling. * Specialist terminology is used with accuracy.   **Mark Band 2 (4-6 marks)**   * A basic explanation, which shows:   + some knowledge and understanding of the term Internet of Things (IoT) and/or smart devices.   + A basic description of some smart devices for the home and some basic knowledge of the impact this will have on homeowners. * Writing shows some evidence of structure though some errors in grammar, punctuation and spelling affect meaning. * Basic use of specialist terminology.   **Mark Band 1 (1-3 marks)**   * A limited explanation, which shows:   + limited knowledge and understanding of the term Internet of Things (IoT) and/or smart devices.   + A limited description of some smart devices for the home and some basic knowledge of the impact this will have on homeowners.   + Some errors in grammar, punctuation and spelling, which affect clarity of communication.   + Limited use of specialist terminology.   **0 marks**  No attempt to answer the question or response is not worthy of credit | 12 | * 1 mark for identification of smart device * 1 mark for its purpose * 1 mark for the impact (positive or negative)   3 marks per device. (4 explained well can achieve full 12 marks)  Must discuss both impact on security and energy to achieve full marks.  Security   * Smart door lock….. * …. Use of biometric locks which can provide access to homes without the use of a key/fingerprint/eye/retina recognition. * ….increased security of homes/unique copy will be stored on the system (any not will be rejected) * Security system…. * ….use of surveillance systems (CCTV linked to app, Ring doorbell, other examples accepted) * …. to predict break-ins and thefts before they occur. * Image recognition… * ….face captured on camera and checked against the system to see if it’s recognised. * ….unauthorised users rejected and owners can be notified.   Energy   * (Smart) air conditioning… * Regulate room/house temperature/set to turn on at a certain temperature. * …..can increase bills because of increased use of air conditioning. * Lighting control system….. * …. Lights can be set to come on at certain times of the day (i.e. when it gets dark)/ Use of virtual assistants to turn lights on and off. * ….reduces energy/electricity bills. * Smart thermostat….. * …. To regulate temperature in the house and can be modified if the house becomes too warm or too hot/ by example (Hive) * ….reduces energy/gas bills. * Smart meter * ….A live recording of current electricity/gas consumption and converts to a cost. * ….Make users more aware of usage/help to reduce bills. |