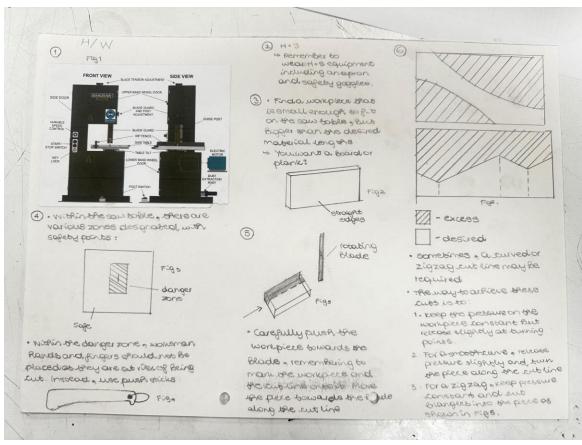
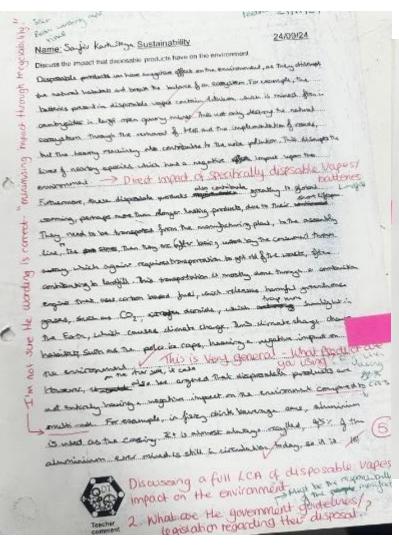


Students learn to use a variety of design and presentation techniques include CAD on PC and iPad. As well as sketching and drawing by hand and modelling.



Students learn to use specialist equipment required for completing the practical elements of their exam. Producing data sheets for each piece of studied equipment



@ 6 marker continued:

of hearth-lid electronics an also prove to regaring lets of energy, where more fossil feels are bound and released to pollule the power. The left that he south one released to pollule the power.

provides in the Carrection for Coboling system, in which a crossed out while him must be displayed an an electronic product to indicate that it must not be according disposal of the imposed of their an inconstruct to rectain as it provides them with an inconstruct to reduce the use of this, man-workable materials in the ensumpraction of electronics, in order to acade human this non-disposable label of them do they provide consensus and disposable label of the easy do they provide consensus.

The WEET Directive provides some orstainable consideration to be the manufacture of electronic hand tools, although it acts only as an inflorme about cannot fally alonge harmful or belie materials and manufacturing processes. Some colding term to estimate.

What other directives/schemes do manufacturers comply with?
RMS, BSI, tacke-back

Extract not a crossed out wheels bin, consumer can community recycle electronic practices at home. However, it has a rather case, commons are found to expentionally to give puch potents to superscooled and other constraint depend overty.

Certain beauty metals such as cuderiam and metaling or electronics as these was love which it is home but the latest livebore has a positive impact on his excellent commerce it and for this that provide regularly sugar the invasional despite WEEE in our graphsture betall such as copper and in electronic othering must be extracted from the court, withdusting a to the enhanced growthars effect Kerryla the relace of their gare, and banking a prominent seas as the planet's exosustern) Furthermore processes such as expression and die-costing in the manufaction a this question seeded to be more manufacturers
responsibility, father then entirepresent input Shapes

Os.

Dring specific product examples images the most displayed on the sales and seeder for the sales and the sales are seeded to be sales and the sales are sales are sales are sales are sales are sales and the sales are sales are sales are sales are sales are sales and the sales are First of all, the Rodning Hazperding Substantos Direction (a low from 2006) Vo legislation which housed the use of cortain boxic metals waterals in electrosic waryschurg such as land, radorness and morning of whilef it is me that their legislation is able to protect the rejections consumer agrical love wetall, wand somewhat help consumated initiatives to present wheeting of weld Colliels damages the environment by reliating taxis gales embrioset to the enhanced grandous eyest, as well as permountly sporing and polluting the natural ecosystem) it does not some

Q2) 6 marker continued: of hearthold electranics are also prone to requiring lets of energy, where man fissil feels are beent and released to pollut the planet. The letter Birective sanction Despite this, a benefit that the letter Direction provide is the (wheele-bin' labelling system, in which a wassed out whethe him must be displayed an an electronic product to indicate that it must not be normally disposed of. The impact of this an manufacturess is crucial, as it provides them with an incenture to reduce the use of taxic, non-workable materials in the manufacture of electrance, in order to avoid having this non-dyposable label v to How do they provide convenient regyding for consumers? The WEBE Directive provides save sustainable environmental backits to the manufacture of electronic hand tools, although it acts only as an inflorence which cannot fully change harmful or trice materials and manufacturing processes. I thus colding them to account ... What other directives/schemes do manufacturers comply with? RMS, BSI, take-back. If there is not a crossed out wheelie bin, consumers can concountly racycle electronic products at home. However, if this is not the case, consumers are given the opportunity to give such products to shops supermarkeds and other convenient disposed points.

certain bearing metals such as adminion and ordering in electronics, as these are boic of whilst it is true but the WEET Pirective has a positive impact on the safety of consumers, it must be said that many actures continue to use materials which verents regatively impact the environment despite WEEE is well grantations. Metals such as capper used in electronic possible of the source must be extracted from the courth, contributing to the enhanced greathause effect through the release of taxic gases, and leaving a permanent scor as the planet's exosportion! Furthermore, processes such as extrusion and die-casting in the manufacte * This question needed to be more manufacturers

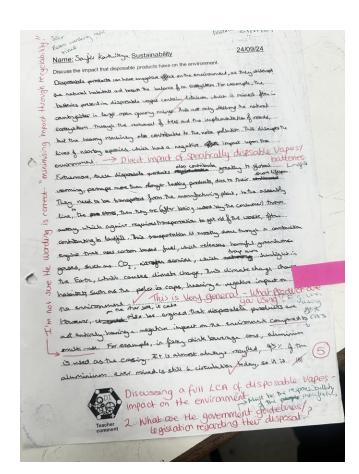
Q3. responsability, rather then environmental acturers

Using specific product examples, analyse the impact of legislation on the design of electronic products.

Actuard in any 1 few products. First of all, the Reducing Hazgridous Substances Directive (a law from 2006) Vu legislation which banned the use of certain toxic metal materials in electronic manufacture, such as lead, cadenium and mercury of Whilst it is me that this legislation is able to protect the safety of consumers against toxic metals, Vand can savewhat help environmental initiative to prevent ediraction of metal (which damager the environment by releasing taxie gaser to contribute to the enhanced greenhave effect, as well as pernovertly sopring, and polluting the natural ensystem I it does not rune

Knowledge and understanding are checked with low stakes exam style questions with feedbacking coming from teacher marking, self marking using published mark schemes and peer marking. Students make note in green pen to correct or expand on answers.

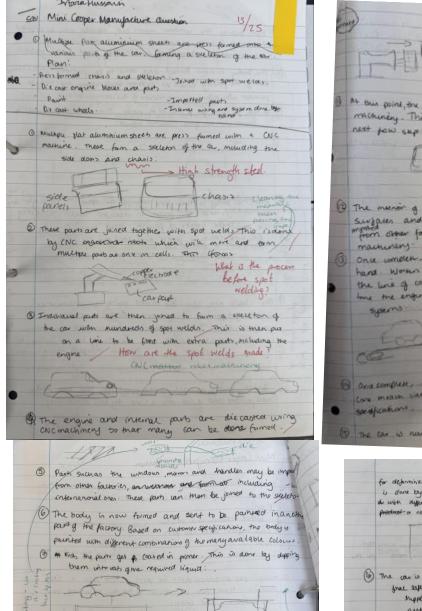
This also builds exam technique.

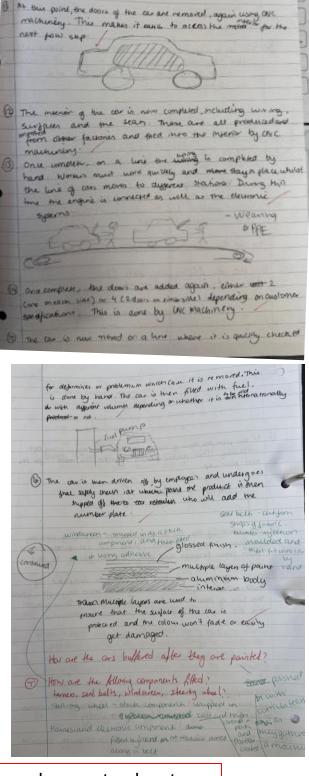


approvate planti product such as single-use for the energy man and over time PET and almos proposers can leach twin marine me the land damaging it even further This may a super animal habitation and is of people may and up leaves in second seco deportate plant products are made they are your suns and when meated corand way greenham gasse are the area contributing to the glubal warming / General, not PET specific looners such as allements can are an disposable, and should again of may raw in up in landfill and as the aluminum when when broken dawn things edges may be women Manger to animals turcisce alumination can engalet and me reduces their environmental infact while energy is shill needed to treat their during the registing process which is usually some and form found frield, neighting means the land does not have to be fusher damaged when down and dolling unat is the aliminim stanshic speaks material Long town Promptions approach (morder) current one pour a mik as to took depend of often ashall was and it row massing but sontwarty wasted to rept managacher have been compaded to lead to a long of million unes on a larger scale per which can destroy, animal habit at and makes land myeall, appointing the inthones reducing biadversity. Trees also act as carban Sinks, so cuting them down will contribute to global was ming by increasing Coz levels in the air

Material sustainability debate. For A Level, must draw on real product examples. Comparing sustainability of one material vs another.
Teacher annotates areas where improvement is needed in red pen. Student responds to feedback and follow on tasks in green pen.

Ylan Plashes - e.g. water bottles Aluminum cans-Disposable plant products such as single-use water bottles have when not recycled end up in langill. Leaching toxic chemicals with the Soil can make it injertile, and PET will remain for thousands I year lawing up space and damaging the environment. As a thin neveral, it PET may be ingested by acom local wildlife, damagurs their internal organs, as well as the landful sights taking up space and reducing on land for animal habitals, as humen decreasing biodiversity in some areas Osposable authory wooden cuttery made out of pine may pal a risk as it is a high demand produce which was means that due to the constant disposal, there must be a high rape of producer the borist magazings so the pine trees must constantly be cut dawn and season to med in tormed machined into the shapes needed. This is as en Trees being cut may increase the rate of deprestation, furth destroying natural habitats and focung out native species. On top of two , trees act as carbon Sinks, which in and so witing them down increases the (Oz levels, contributing to global warning. Furthermore, the macrining processes are extremely energy intensive, reliant on possil freely





As part of their exam students produce a step-by-step plan of manufacture for a given product.

For success in this, students must consider:

- Quality control/Quality Assurance
- Scale of production
- Materials and detailed manufacturing processes
- H&S

Primer.

LOOK

That The body is then sent through an a line through an ovento dry; and this process is repeated when adding ?

the multiple coats of paint, and then finally a

oven - temperature > 1000c

finishing coat to protect and seal the surface.

19 The wheels are also die casted using CNC machines or creating different designs according to customer

specifications. The tyre, are may be sourced from other factories and attached to the wheels by hand for may be factories and attached to the injection manded rusing moder wheel wheel

(b) These paras are all attained to the soon body, now painted and direct, on a line by (NC macrissery:

 Explain the advantages and disadvantages of making greater use of renewable energy sources to power products and systems.



better for the environment. For example, whom star entirely from war paners continue his wage of fourth furtishing rations continue his wage of fourth furtishing rations when the start and to the environment for entire entire the entire for the entire formation and entire the entire thanks therefore the entire thanks there exists and entire the entire thanks thanks there is the entire thanks the entine thanks the entire thanks the entire thanks the entire thanks t

what we the environmental factors associated with solar energy? - Does Materials routed music or active

can dend the a scatter of manner against by are within

Lucientes d

Majories - Membroren have to be anuel - survey versol Glass - merghant mediato be trescurol

Space lamps has to be agreeted to prince their