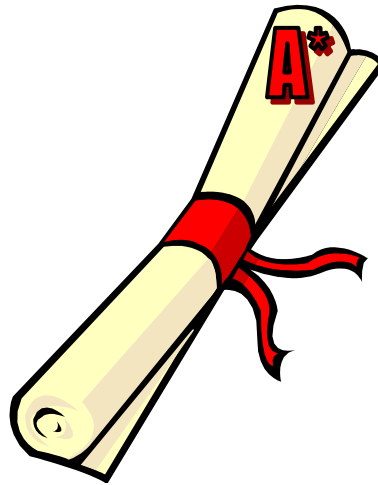


GCSE DESIGN AND TECHNOLOGY TEXTILES TECHNOLOGY



EXAM PREPARATION

2017

YEAR 11 REVISION TESTS

During the exam preparation period you will complete tests under exam conditions.
We will mark these tests together to see exactly where you are going wrong.

Use the tests to help you revise for the final examination

Name..... Form.....

Revision Test 1

Explain 2 ways how you could find out what people would like your products to look like (2)

Give 3 factors that you would need to think about when designing your product
Give a reason why you think that each factor is important (6)

Give 3 ways in which you could use the theme of India in your product (6)

A designer in industry would research ideas relating to India from many sources. Name 2 sources of information about India (2)
Evaluate the usefulness of each of these sources (4)

Give 2 reasons why your design would appeal to customers (4)

Give 3 ways in which a computer can help when carrying out research and presenting this information (3)

Give 3 reasons why designers look at existing products before coming up with ideas of their own (3)

Total Mark 30

Revision Test 2

Give 4 things you would need to know before starting to design your product (4)

What will you have to think about before you start designing the products? (6)

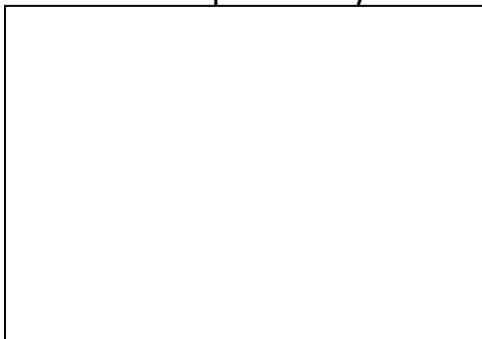
Give 3 ways in which you could find out what people would like the designs to look like (6)

You have been asked to present your ideas for the products for approval before final development. Describe how you could do this (6)

Give 3 areas you would have to consider when developing your final product (6)

Describe one way a designer could experiment with colour (4)

Sketch 2 ideas for the products you have chosen (8)



Total Mark 40

Name

Revision Test 3

Explain how you have used the following to develop an India related theme (8)

Fabric and Components

Decorative techniques

Colour

Shape and pattern

List the qualities that make your final idea an excellent design (5)

Explain 2 ways of making sure that young people will like your designs (4)

Write a 5-point specification for the main fabric to be used for your products (5)

What 3 qualities must the fabric for your product have? (3)

Describe in detail the main fabric you would recommend for the product (5)

Total mark 30

Name

Revision Test 4

Using sketches, labelling and notes, present a final idea for your product.
You have this and the next page to present your design.

Marks will be awarded for:

Choice of suitable fabrics and components - include smart fabrics (4)

Decorative techniques used (3)

Originality and inventiveness of design (3)

Use of colour (2)

Form, Function and Quality of the design (6)

Presentation and labelling of the final idea (2)

(18 marks)

Final idea continued

Name

Revision Test 5

How can computers help the designer? Give 5 Points (5)

How can computers help the manufacturer? Give 5 points (5)

How can a computer be used to present ideas to the client? (5)

Explain the following: How does the computer help with:
Computer Aided Lay Planning / producing cutting plans (2)

Computer controlled cutting (2)

What is a band saw and how does this operate? (2)

What are the safety precautions when using the band saw? (4)

Why is fabric cut out in hundreds of layers or multiple layers as it is called? (2)

What are the key advantages of using CAD? Give 4 (4)

Your product will have a label stitched in or perhaps a logo or motif worked on it. Explain how the manufacturer might do this. Give 2 methods. (4)

When textiles products are manufactured they are often made up in several different stages. In other words parts are made on a sub-assembly line.

What does sub-assembly mean? (2)

What parts of your product could be made on a sub-assembly line? (3)

A factory's quality control system will consider how far your product conforms to the tolerance levels set in the manufacturing specification.

What is a tolerance level? Give an example in your product (4)

Explain why it is important that the product is manufactured to the agreed tolerance. (4)

If your product is manufactured in a "just in time" (JIT) system of production what does this mean? (2)

Total mark 50

Name

Revision Test 6

What information would the manufacturer need in order to plan the production? (5)

Why does the manufacturer need a production plan? (3)

List the stages involved in the manufacture of your product (8)

Designers must consider cost. Give 3 ways to reduce the cost of manufacturing a textiles product. (3)

Manufacturers have to keep costs to a minimum.
What are fixed costs? (2)

What are variable costs? (2)

A designer has to think about many issues. Comment on each of the following
Moral issues (3)

Social issues (3)

Cultural issues (3)

Designers and manufacturers have to think about safety issues. Write a comment about the work of the designer in ensuring that a product is safe for a consumer to use (4)

Write a comment about the manufacturer's responsibility in ensuring the work force is safe in the factory (4)

Why might your product be difficult to make in quantity? (4)

How could it be modified, developed or changed to make it cheaper to produce? (4)

Designers often have to resolve conflict of interest when designing your products. Discuss one conflict that might arise when designing your products for mass manufacture and explain how it might be resolved. (2)

Total marks 50

Name

Revision Test 7

What is the purpose of carrying out research? (1)

What is a mood board? (1)

What is a moodboard used for? (2)

Why does a designer need a specification to work to? (2)

Write down 3 things you could do as part of the development of your product design (6)

Why is it useful to look at existing designs (product analysis)? (4)

What is a product specification? (1)

What information would you expect to find on a product specification? (4)

What is a prototype? (1)

Why is it useful for a manufacturer to make a prototype first? (2)

What is a production schedule? (1)

Describe each of the following production process systems:

One off production (4)

Batch production (4)

Mass production (4)

Why are people willing to pay so much money for "one off" products? (3)

List 6 things that make a product sell well to the public (6)

How much will your product cost to make? (1)

How would you alter your design to make it suitable for mass production? (2)

What are the things that make your product expensive to produce? (2)

Total marks 56

Name

Revision Test 8

Explain the reasons why a product would be packaged before leaving the factory (3)

Explain how a product could be displayed in shops to encourage people to buy it (3)

A care label will be attached to the product

What will you need to take into account when recommending care instructions for your product? (3)

A limited number of products will be sold as seconds. Explain the different problems, which could arise in the manufacture of your product and give second quality products. Explain how the manufacturer would put these problems right. (6)

When checking a batch of your products the quality controller found 3 faults, explain how each may have been caused:

Logos are not in the same place on each product (2)

Seams are puckered and will not lie flat (2)

Stitches coming undone at the end of seams (2)

A shop will sell some special products made by local designers as a "one-off". What are the likely benefits for the retailer and the consumer? (2)

What are the different types of label that might go on your product? (3)

Give 3 pieces of information, which might be included in the labeling of your product (3)

Some shops have their own brand label attached to their products.

Give 2 advantages of this (2)

Cost is important when manufacturing products. Look at the products you have designed. Explain 2 changes you could make to your products so that they could be made more cheaply (2)

List 3 things that could cause a needle to break while machining your product (3)

The retailer will have to display your product well if it is going to sell. How might he do this (2)

Why is it important that workers do not eat or drink while operating machinery? (2)

Total mark 40

Name

Revision Test 9

What is Quality Assurance? (QA) (2)

What is Quality Control? (QC) (2)

Explain why your product is a high quality design (4)

When your product has been manufactured what are the things that will make it top quality? (4)

What are the quality checks at the following stages of manufacture?
Describe each one.

Fabric as it comes into the factory, prior to cutting (3)

Making up of the product on the assembly line (3)

The final quality check as the product is ready to leave the factory (3)

To make sure production runs smoothly and everything is done to the highest quality the production manager has to keep a check on the fabrics and components.

How does he ensure the quality of fabrics and components? (2)

How does he keep a check on what is in store? (2)

Imagine your product has a motif or fabric label on it.
Suggest 2 ways it could be produced to the highest quality (2)

How can a manufacturer ensure the workers perform to their very best (3)

Explain how the manufacturer makes sure it is safe for the workers at each of the following stages:
Fabric arrives in heavy rolls (2)

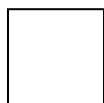
Cutting out fabric with the band saw / knife (2)

The assembly line (2)

The pressing room (2)

Give 2 quality checks that would be carried out on your product (2)

Total marks 40



Revision Test 10

The client will only buy the idea for an environmentally friendly product
How would you assure him that yours is (4)

How would you sell your idea to the client? (2)

When your product has been manufactured what are the things that will make it top quality
(4)

Your product is made to the highest quality, which means it is very accurate and well
finished

How would you finish off the seams? (2)

How would you present the product for selling in the shops? (4)

The manager has to decide where to buy his components and fastenings. What quality
issues will he be looking at? What will he think about when choosing the fastenings? (4)

How does the production manager keep a check on what is in stock? (2)

What part can bar codes on fabrics and storage boxes play? (2)

Imagine your product has a motif or fabric label on it.
Suggest 2 ways it could be produced to a high standard (2)

Explain why your product is safe for children (2)

Draw and discuss 4 labels regarding safety on Children's products (4)

List the qualities that make your final idea an excellent design (4)

Describe 2 ways of designing a surface pattern for a length of fabric based on your theme (3)

Describe one method you might use to colour your fabric with dyes and paints (4)

Why do designers look at existing products? (2)

Total marks 45

Name

Results chart

To give you some indication of how you are doing take

62% as *Grade C*

72% as *Grade B*

82% as *Grade A*

95% as *Grade A**

Date	Test No.	Mark	Your Mark	%	Shade if TARGET GRADE achieved	Comment
	1	30				
	2	40				
	3	30				
	4	18				
	5	50				
	6	50				
	7	56				
	8	40				
	9	40				
	10	45				

Comment on performance and advice for the final exam

Homework 1

Designers use CAD packages when working on new designs

Describe 2 ways in which a CAD package would help with the design of your range (2)

Your designs will be based on an Indian theme. Explain 2 ways of making sure that customers will like them (6)

Colour is important when designing. Describe 2 ways in which a designer could experiment with colour ways (4)

Explain how the client might have found a gap on the market (3)

How is the target market likely to affect your designs? (3)

Fastenings on a product are important. Name 2 fastenings that could be used on your product - give your reasons for choice (4)

What is a sketchpad, why might a designer use one? (4)

Total mark 26

Homework 2

In what way might a consumer consider your products to be value for money (3)

Name and describe 2 components used on your product (6)

Give 3 pieces of information about your product that you could put on an Internet website (3)

What are the advantages of using a computer spreadsheet to work out the final selling price of your products? (3)

What fabric have you chosen for your product? Explain why this fabric is suitable for you products (6)

A basic pattern block may be used for your product. Discuss the advantages to the manufacturer of using basic block pattern (5)

Give one advantage and one disadvantage of buying your products in each of the following places :(8)

Internet website

Fancy dress shop

Department store

Market stall

Total marks 34

Homework 3

Give 2 advantages of using sub-assembly lines (2)

What are the advantages of using CAM in the production of your product? (3)

Manufacturers have responsibility for the health and safety of their workers. Discuss the potential health and safety hazards associated with the manufacture of your product (8)

Discuss the advantages and disadvantages of manufacturing the product in another country (4)

Give 3 things that the manufacturer will need to think about when choosing a way of finishing off the raw edges of fabric on your product (3)

Explain the differences between mass manufacture and the making of a prototype (8)

Give 3 ways in which computer technology can keep track of where a product is in the manufacturing system (3)

Name 2 decorative techniques that you could use to show the marine life theme on the product you have designed (2)

Use notes and diagrams to describe 1 of these decorative techniques in detail (5)

Explain 2 advantages of using computerised sewing machines (6)

Think about: Pattern laying and cutting fabric/sewing buttonholes/steam pressing the final product etc

Total marks 44

Homework 4

Explain how a computerised sewing machine could help during the manufacture of your product (2)

Give 3 ways in which accidents can be prevented in the factory making your product (3)

Give 4 costs that will need to be considered when working out a selling price for your product (4)

Name 3 quality controls you would use to make sure that your product was manufactured to a high standard (6)

Describe a seam that could be used to prevent fraying. You may use diagrams (4)

Discuss the factors, which you will have to think about when choosing methods of finishing the edges on your product (4)

Total marks 23

Homework 5

Your product must be safe for customers to use. Explain 2 different ways you can ensure your product is safe for children (4)

The design specification says that your product must:

Be made from smart or modern materials;

Be decorated in an original way based on the India theme;

Be batch produced;

Be adaptable for a range of age groups

Use pencil sketches to show 2 initial ideas for the products

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(8 marks)

Choose one of these ideas for development

Explain why you have chosen this product for further development (5)

List 3 responsibilities of a designer (3)

What are colour ways and why would a designer experiment with them? (4)

Total marks 24

Homework 6

Many manufacturers use Just in Time systems to help control costs. What is a Just in Time (JIT) system? (3)

Testing the product is an important part of product evaluation. Describe ways in which the team may test your product (3)

Use notes and diagrams to show how you could use 1 decorative technique to create the India theme (6)

A manufacturing specification is needed for your product. List 4 things that would be on this specification (4)

Explain how you could use 2 components to add interest to your products (4)

Give 2 safety points that should be considered when choosing fabrics and components for your product (2)

Fabrics and components must be as environmentally friendly as possible. How can you ensure that? (5)

Explain why you think the fabric you have chosen is suitable for your product (2)

Total marks 29

Homework 7

Write a 4-point specification for the fabric you have chosen for your product (4)

Give 2 advantages and one disadvantage for using this fabric (3)

Describe the properties of the fabric you have chosen, include fibre content and method of construction (4)

Suggest a fibre or blend of fibres from which the fabric could be made (1)

Name one modern finish, which could be used on this fabric to improve its properties (1)

Explain why you think this finish would be needed (3)

Why might you add Electronics into your product? (2)

What are smart fabrics? (4)

How could you incorporate smart fabrics into your design? (2)

The fabric test report says that your chosen fabric is colour fast to both light and washing. Explain what this means for your product (3)

Describe the structure of knitted, woven (twill and plain weave) and bonded fabric diagrams (6)

Total marks 33