# **DESIGNER**Examination Questions

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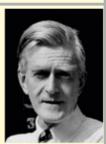
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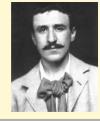


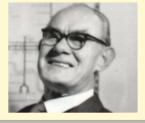














# **DESIGNER - CHECKLIST**

Your teacher will identify the designers you are to study for your examination.

Each worksheet is composed of examination questions and has at least one link to information / possible answers.

DESIGNER	/
PHILIPPE STARCK	
CHARLOTTE PERRIAND	
ZAHA HADID	
JOCK KINNEIR AND MARGARET CALVERT	
LUDWIG MIES VAN DER ROHE	
MICHAEL THONET	
EILEEN GRAY	
BETHAN GRAY	
MARCEL BREUER	
ROBIN DAY	
OWEN MACLAREN	
CHARLES RENNIE MACKINTOSH	
HARRY BECK	
ETTORE SOTTSASS	

# **PHILIPPE STARCK - EXAMINATION QUESTIONS**

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LINK FOR HELP http://www.technologystudent.com/despro\_flsh/phillipe1.html

1. Briefly explain / describe Philippe Starck' s background as a designer. 5 marks
2. List five products designed by Philippe Starck. Include dates. 5 marks
<ol> <li>Select one of the products from question two and explain why it is regarded as an iconic design. 5 marks</li> </ol>
PRODUCT NAME:

# **CHARLOTTE PERRIAND - EXAMINATION QUESTIONS**

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LINK FOR HELP www.technologystudent.com/despro\_flsh/charlotte1.html

	2					
	a paragraph sed' designer.	outlining the 4 marks	background	of Charlotte,	before she	e became a
	otte often worke 80s. Who were t		•	other designe	rs, in the late	e 1920s and
Pierre Je	the Chaise Lor anneretan and nic chair? <b>6</b> n	Le Corbusier				
	LC4 CHA	ISE LONGUE (L	OUNGE) CHA	IR - MODEL B30	06 - 1928	

# **ZAHA HADID - EXAMINATION QUESTIONS**

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LINK FOR HELP www.technologystudent.com/despro\_flsh/zaha1.html

<ol> <li>Write a paragraph outlining the background of Zaha Hadid, before she became a famous' architect. 4 marks</li> </ol>
2. Hadid's break through came in 1993. What is the name of the building she designed?  1 mark
3. Study the selection of Zaha Hadid's buildings / structures, on the picture insert page. List below, the features / characteristics of her work. As you list each feature / characteristic, name the structure(s) / building(s) that display the feature / characteristic. 6 marks

#### MARGARET CALVERT AND JOCK KINNEIR - EXAMINATION QUESTIONS

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LINK FOR HELP www.technologystudent.com/despro\_flsh/calvert1.html

. Why was it necessary to design a standard signage system for the UK motorway and					
road network?	4 marks				

**2.** On the motorway sign seen below, identify features introduced by Calvert and Kinneir. **5 marks** 



**3.** The road sign shown opposite, is from the 1950s, before the new Calvert and Kinneir signage was introduced.

On the back of this sheet or on a new sheet of paper, redesign the sign, in the style of Calvert and Kinneir.

- **3a.** Produce a rough version, with notes explaining the design. *(Sketch 2 marks notes 2 marks)*
- 3b. Produce a final colour rendered version. (2 marks accuracy of drawing 2 marks for colour scheme)



#### **LUDWIG MIES VAN DER ROHE 1886 – 1969**

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THE GERMAN ARCHITECT LUDWIG MIES VAN DER ROHE, DESIGNED THE PAVILION (EXHIBITION STAND) FOR THE 1929 BARCELONA WORLD FAIR. THE PAVILION WAS TO HOUSE MANUFACTURED GERMAN PRODUCTS, TO PROMOTE GERMAN DESIGN, ENGINEERING AND TECHNOLOGY, IN THE SAME WAY TRADE FAIRS DO TODAY. HIS 'BARCELONA CHAIR' (ALSO CALLED THE PAVILION CHAIR) WAS DESIGNED BETWEEN 1928 AND 1929. IT WAS ONE OF THE GERMAN EXHIBITS AT THE BARCELONA WORLD FAIR. IT QUICKLY BECAME KNOWN AS A CLASSIC MODERNIST DESIGN. HE BECAME DIRECTOR OF ARCHITECTURE AT THE BAUHAUS IN 1930.

#### **CANTILEVER CHAIR MR20, 1927**



**LOUNGE CHAIR 1932** 

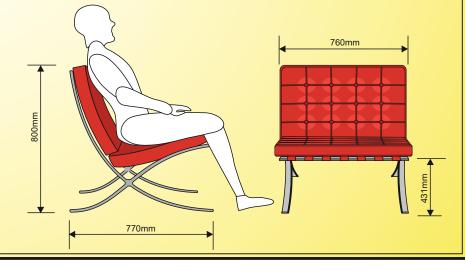


**BARCELONA CHAIR 1929** 



**BARCELONA DAYBED, 1930** 





# <u>LUDWIG MIES VAN DER ROHE 1886 – 1969 - THE BARCELONA CHAIR</u>

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LINK FOR HELP http://www.technologystudent.com/prddes1/barcelona1.html

1. In what year was the Barcelona Chair	r first manufactured? 1 mark
2. It first appeared at an important interr  1 mark	national industrial event. What was the name of the event?
3. Name two materials used in the manufa	acture of the chair. Name a part / component for each material.
MATERIAL:	
MATERIAL:	
4. What type of quality finish is applied to	
5. Why can the Barcelona Chair be rega	orded as a classic design? 3 marks
6. Complete the front and side elevations	s of the Barcelona Chair, by adding the missing parts. 3 marks

# MICHAEL THONET AND THE No 14 CHAIR

INFORMATION:

Ш

MORI

FOR

STEAM BENTWOOD **PARTS** 

MINIMUM MATERIALS **USED** 

SIMPLE BUT **ELEGANT DESIGN** 

**CURVES AND SWIRLS** IN THE DESIGN

> MINIMUM NUMBER OF PARTS

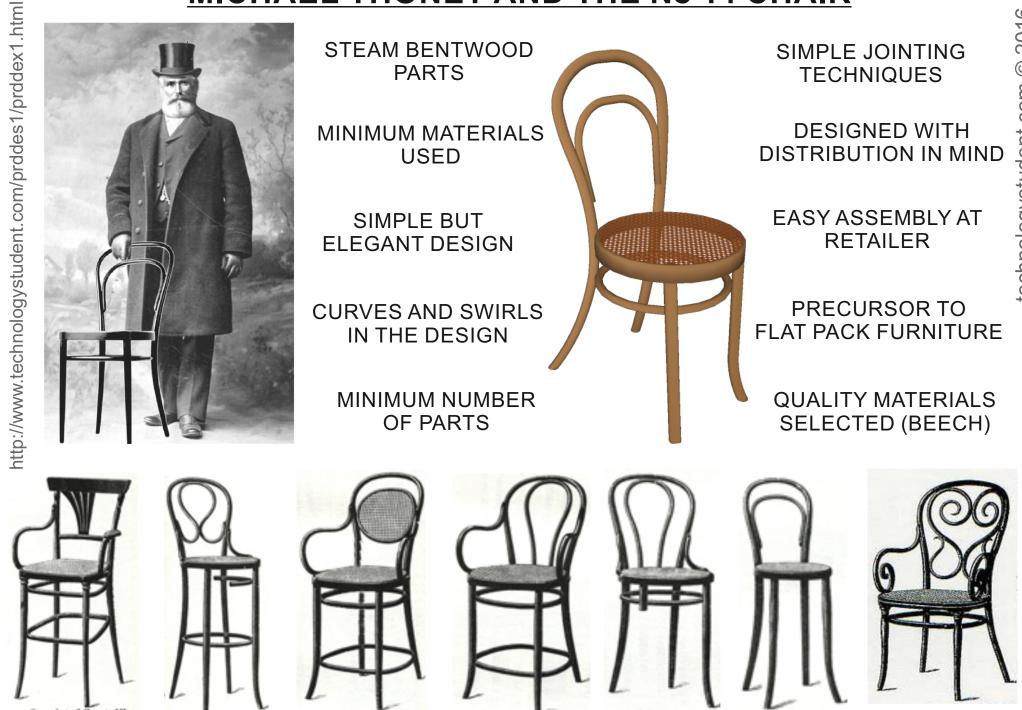
SIMPLE JOINTING **TECHNIQUES** 

**DESIGNED WITH DISTRIBUTION IN MIND** 

**EASY ASSEMBLY AT RETAILER** 

PRECURSOR TO FLAT PACK FURNITURE

**QUALITY MATERIALS** SELECTED (BEECH)



# MICHAEL THONET AND THE No 14 CHAIR - QUESTIONS

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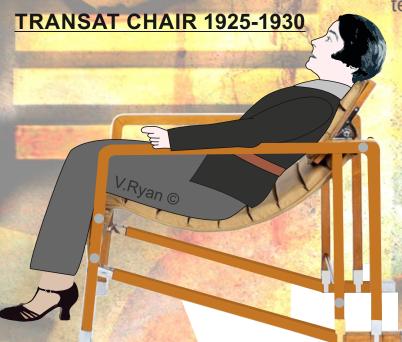
LINK FOR HELP http://www.technologystudent.com/prddes1/thonet1.html http://www.technologystudent.com/prddes1/thonet2.html

1. What is bentwood furniture? <i>4 marks</i>
2. How was the manufacturing processes of Thonet 'bentwood' furniture', different to that of the Arts and Crafts Movement? 3 marks
3. It could be said that the Thonet No 14 chair, was the first ever flat packed furniture. What facts support this argument? <i>4 marks</i>

4. In the space available below, sketch the various parts of the Thonet No 14 Chair. 6 marks

# **EILEEN GRAY 1878 TO 1976**

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EILEEN GRAY WAS A MODERNIST
DESIGNER, BORN IN ENNISCORTHY,
IRELAND IN 1878. SHE WAS AN ARTIST,
INTERIOR DESIGNER AND ARCHITECT. SHE
SPENT HER EARLY YEARS TRAINING IN
LONDON, BUT SPENT MOST OF HER TIME
IN FRANCE. HER WORK CAN BE
REGARDED AS BOTH FUNCTIONAL AND
ARTISTIC. MUCH OF HER WORK WAS AT
THE LEADING EDGE OF THE MODERNIST
MOVEMENT AND WAS INFLUENCED BY THE
ART DECO DESIGN MOVEMENT.



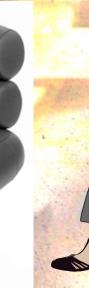
## THE E1027 TABLE - 1929

0

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es1



**THE BIBENDUM CHAIR (1917 - 1921)** 



https://www.facebook.com/groups/254963448192823/

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# **EILEEN GRAY**

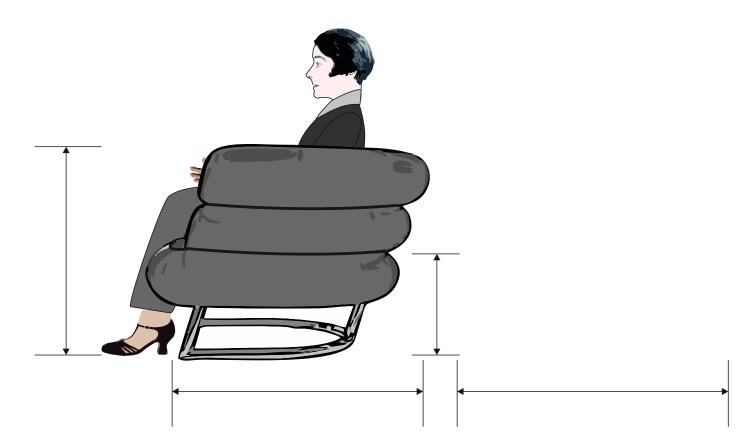
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LINK FOR HELP http://www.technologystudent.com/prddes1/egray1.html http://www.technologystudent.com/prddes1/gray2.html

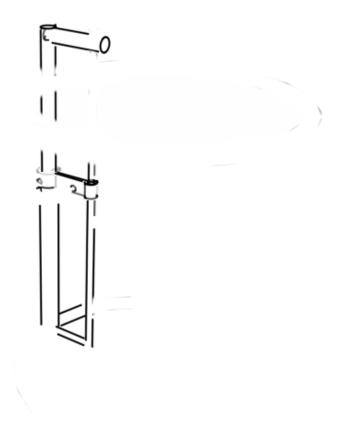
1. Complete the passage about Eileen Gray, by adding the missing key words / phrases in the correct places. The key words / phrases are listed below the paragraph. 8 marks

Eileen Gray w	as a modernist designer,	born in , Ireland in	. She
was an artist,	an	born in, Ireland in _ d architect. She spent her early years	training in
London, but s	pent most of her time in	Very few women worked	d in design
		profession was male dominated.	3
originally for _ been celebrat	clients. Howe	regard by her fellow designers. Her de ever, it is only in recent years that he e. Since the, her designs wider audience.	er work has
	pe regarded as both edge of the esign movement.	Much of he _ movement and was influenced in p	er work was articular by
1878	MODERNIST	INTERIOR DESIGNER	FRANCE
WEALTHY	ENNISCORTHY	FUNCTIONAL AND ARTISTIC	1970's
2. What type of	chair was the Transat Chai	r of 1925 - 1930 based on? 1 mark	

3. Add the front view of the Bibendum Chair to the orthographic drawing below. Add the dimensions. *4 marks* 



4. Complete the sketch of the E1027 table. 4 marks



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V. Ayan & 2012 World Addodated for Toolinoogy Todated
4. Name the materials used to manufacture the E1027 table and describe the finish applied to each one. 2 marks
5. Eileen Gray designed the table with her sister in mind. What was the purpose of the table? 2 marks
6. Explain / describe the way the height of the table can be adjusted. 2 marks
7. Which of Eileen Gray's designs is your favourite? Why? 3 marks
NAME: WHY?

#### **BETHAN GRAY - EXAMINATION QUESTIONS**

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LINK FOR HELP www.technologystudent.com/despro\_flsh/gray1.html

. Describe the 'design' background of Bethan Gray.	4 marks
. What features / characteristics often appear in Beth	nan Gray's work. <i>5 marks</i>

3. A Bethan Gray 'table' is seen below. Identify each of the features / characteristics you listed in question 2, on the image. (You can substitute alternative features, if you feel they are more relevant for this piece of work). **5 marks** 



# BAUHAUS

# **MARCEL BREUER** (1902-1981)



MARCEL BREUER WAS AN INFLUENTIAL MODERNIST DESIGNER AND MADE A SIGNIFICANT CONTRIBUTION TO THE BAUHAUS AND THE MODERNIST MOVEMENT. HE WAS BOTH AN ARCHITECT AND A DESIGNER, LIKE MANY OF THE INFLUENTIAL MODERNISTS, OF THE EARLY TO MID TWENTIETH CENTURY.

BREUER PROMOTED THE USE OF MODERN MATERIALS, INCLUDING TUBULAR STEEL, A MATERIAL THAT HAD NOT BEEN USED PREVIOUSLY IN FURNITURE DESIGN. TUBULAR STEEL IS LIGHT, VERSATILE AND CHEAP. IT CAN BE JOINED, SHAPED AND FORMED IN DIFFERENT WAYS, OPENING UP NEW DESIGN POSSIBILITIES. THIS WAS THE DESIGN PHILOSOPHY OF THE BAUHAUS.

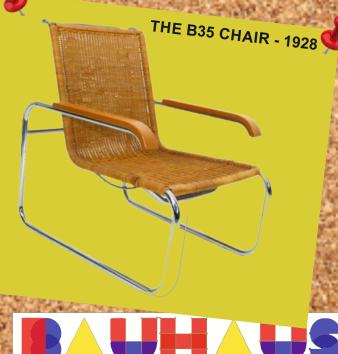
THE B5 CHAIR - 1926/27





WASSILY OR B3 CLUB CHAIR- 1924







#### LINK FOR HELP http://www.technologystudent.com/prddes 2/breuer1.html



- 1. What is the name of this chair? 1 mark
- 2. What year was it first manufactured ? 1 mark
- 3. Why can the chair be regarded as trend setting? 3 marks

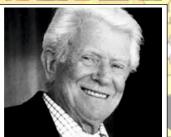


- 4. What is the name of the company that first manufactured this chair? *1 mark*
- 5. The company named in question 4, also manufactured an extensive range of unusual furniture. What was the name of range? *1 mark*



- 6. Name the chair shown opposite. 1 mark
- 6. Write a short description of the chair. 3 marks





ROBIN DAY (1915-2010), TRAINED AT THE ROYAL COLLEGE OF ART IN THE 1930S. HE WAS A FURNITURE DESIGNER, BEST KNOWN FOR HIS INNOVATIVE DESIGN OF THE POLYPROP CHAIR IN 1963, ALTHOUGH THIS WAS NOT HIS ONLY RECOGNISED DESIGN. THE POLYPROP CHAIR WAS MANUFACTURED FROM POLYPROPYLENE, THROUGH INJECTION MOULDING. THE DESIGN BECAME A TREND SETTER FOR CHEAP, QUALITY, MASS MANUFACTURED, STACKABLE CHAIRS.

# THE DESIGNER ROBIN DAY

Low cost storage unit the MoMA Prize, 1949



IN 1951 AT THE FESTIVAL OF BRITAIN, ROBIN DAY INTRODUCED
FURNITURE HE HAD DESIGNED. ONE OF THESE DESIGNS, WAS THE
'LOUNGE ARMCHAIR', CONSTRUCTED FROM INNOVATIVE MATERIALS SUCH
AS PLYWOOD, WHICH HAD SEEN INCREASED USE DURING THE SECOND WORLD WAR.
ROBIN DAY WAS INFLUENCE BY MODERNISM AND THE STYLE OF THE BAUHAUS.



# THE DESIGNER ROBIN DAY

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LINK FOR HELP

http://www.technologystudent.com/prddes1/robinday1.html http://www.technologystudent.com/prddes\_2/robinday1.html http://www.technologystudent.com/prddes1/polyprop2.html

1. Who was Robin Day? 3 marks	
2. In what year was the Hilestak chair designed?	1 mark
3. Sketch the Hilestak chair and describe some of <i>4 marks</i>	its features.
4. When did Robin Day design the Lounge Arnmo	chair? <b>1 mark</b>
5. Sketch the Lounge Armchair and describe som <i>4 marks</i>	e of its features.

## **ROBIN DAY - THE POLYPROP CHAIR - 1963**

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LINK FOR HELP

http://www.technologystudent.com/prddes1/robinday1.html http://www.technologystudent.com/prddes\_2/robinday1.html http://www.technologystudent.com/prddes1/polyprop2.html

1. In which	year was the	polyprop c	hair designed? 1 <u>m</u>	nark			
2. Why has below. 6 ma		chair been	so successful? You	u may wish	to include	the key words	s / phrases
POLYPROF	PYLENE	INJECT	TION MOULDING	STAC	KABLE	TUBUL	AR STEEL
CHEAP	STRON	1G	ONE PIECE BAC	K AND SE	AT	ERGONOM	IC DESIGN
MODERNIS	ST STYLE	RANG	E OF COLURS	LIGHTW	EIGHT	RANGE	OF STYLES
	RANGE O	F SIZES	ICON DES	IGN	TREND	SETTER	

3. Sketch your version of the polyprop chair. 4 marks



# **OWEN MACLAREN - TECHNOLOGY TRANSFER AND THE MACLAREN B-01 BUGGY**



Owen Maclaren is best known for his innovative design of a lightweight folding baby carrier. In addition, he designed the undercarriage of the famous Spitfire. The new undercarriage design, allowed the plane to manoeuver whilst on the ground and the wheels to fold into the wings, creating an aerodynamic shape.

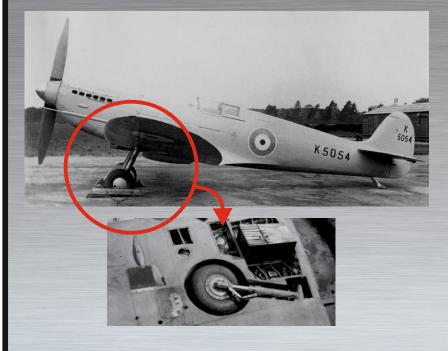
#### Why is the Maclaren B01 folding push chair regarded as an iconic design? Why was it so influential?

The B01 was the first folding push chair and it inspired other designers to follow suit, with a range of lightweight folding products. The high standard of his design and level of innovation set a high bench mark, that other designers tried to meet. His B-01 push chair, was a vast improvement on past designs and set new standards in terms of the materials used, folding capabilities and aesthetics.

Maclaren's use of aluminium tube was new to the design of everyday products, such as push chairs. After the introduction of the Maclaren B01, aluminium was considered as the main material for many other products. The manufacturing techniques introduced by Maclaren, in the manufacture of the push chair, have been utilised ever since.

The Maclaren B01 'stood out' from other similar products in the 1960s and is still in production today (albeit, an improved version). It has stood the test of time, which is another characteristic of an iconic product.

# TECHNOLOGY TRANSFER FROM SPITFIRE TO CHILD'S BUGGY









**FRONT VIEW** 

SIDE VIEW

**FOLDED BUGGY** 

#### **OWEN MACLAREN AND THE MACLAREN B-01 BUGGY - QUESTIONS**

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LINK FOR HELP http://www.technologystudent.com/prddes1/owen1.html

1. What did Owen Maclaren design and manufacture before he developed the B01 Buggy? 2 marks
2. When was the design of the B01 Buggy patented? 1 mark
3. When did the B01 buggy become available in the shops? 1 mark
4. What inspired Owen Maclaren to design a lightweight manoeuvrable buggy? 2 marks
5. Compare the two push chairs below, in terms of size, weight, ability to fold and aesthetics.  4 marks

#### **TYPICAL CHILD'S PUSH CHAIR 1960s**



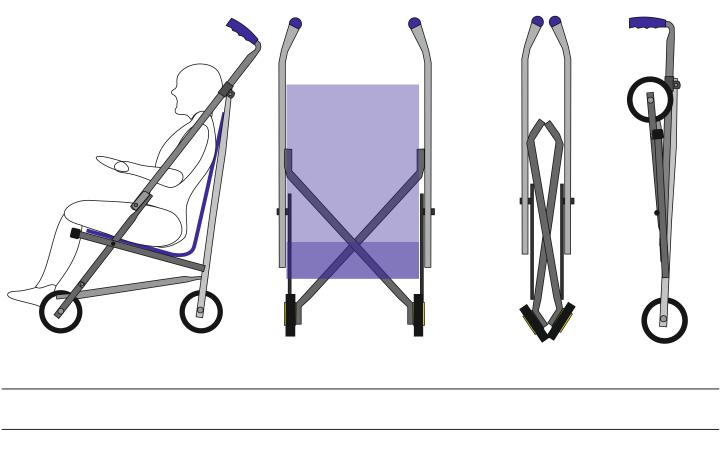
#### A MACLAREN CHILD'S PUSH CHAIR



### **BASIC PRINCIPLES IN THE DESIGN OF A CHILD'S BUGGY - QUESTIONS**

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LINK FOR HELP http	://www.technolog	gystudent.com/p	rddes_2/maclaren2.	html
npared to steel, why is alumir /? 3 marks	nium tube a good	choice for the m	anufacture of a child	l's push chair /
at should be avoided when o	lesigning a child	's push chair, sel	ecting the materials	and developing
dy the simplified push chair s				ld you add to the
SIDE VIEW	FRON	T VIEW	FOLDED FRONT AND	~



**4.** On the back of this paper, sketch and describe one improvement you would make to the design. **5** *marks* 

# CHARLES RENNIE MACKINTOSH

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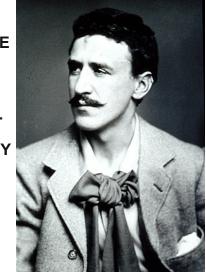


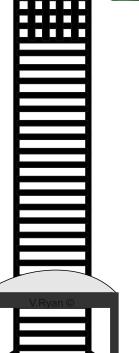






CHARLES RENNIE MACKINTOSH (1868 TO 1928) -RENOWNED SCOTTISH DESIGNER AND ARCHITECT. HE ALSO PRODUCED FLORAL WATERCOLOURS, LANDSCAPE WATERCOLOURS, TEXTILE DESIGNS AND INTERIOR DESIGNS. HIS FURNITURE IS ESPECIALLY MEMORABLE AND THEIR INNOVATIVE DESIGN WAS IMPORTANT, AT A TIME OF CHANGE FROM ART NOUVEAU TO MODERNISM. MANY OF HIS DESIGNS WERE INFLUENCED BY ART NOUVEAU AND THE ARTS AND CRAFT MOVEMENT AND BY JAPANESE STYLE AND DESIGN. HE OFTEN INCLUDED FLORAL PATTERNS AND CELTIC ART. AS SIMPLE DECORATION.

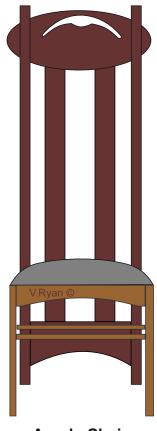




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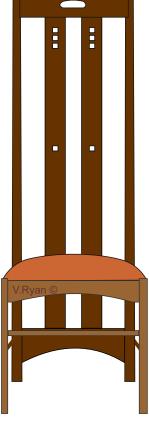




**Argyle Chair** 1897



**High Back Chair** 1899



**INGRAM CHAIR** 1903

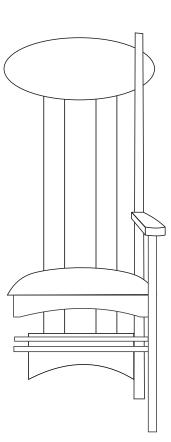


**CHAIR DESIGNED FOR** HOUS' HILL, 1904

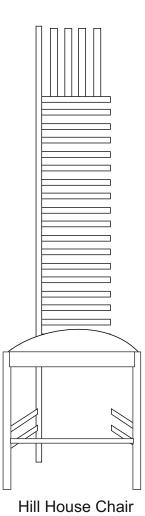
#### LINK FOR HELP http://www.technologystudent.com/joints/rennie1.html

- What Nationality was Charles Rennie Mackintosh? 1 mark
- 2. What is the name of the building, for which he designed the impressive facade?  $\it 1 mark$
- 3. Explain how Mackintosh's designs were influenced by other styles. *4 marks*

4. Complete the drawings of the two Charles Mackintosh chairs, adding the missing detail and appropriate colour and shade. **6 marks** 



High Back Chair 54 x 137 x 48 1899



Hill House Chair 42 x 140 x 35. 1903-1903

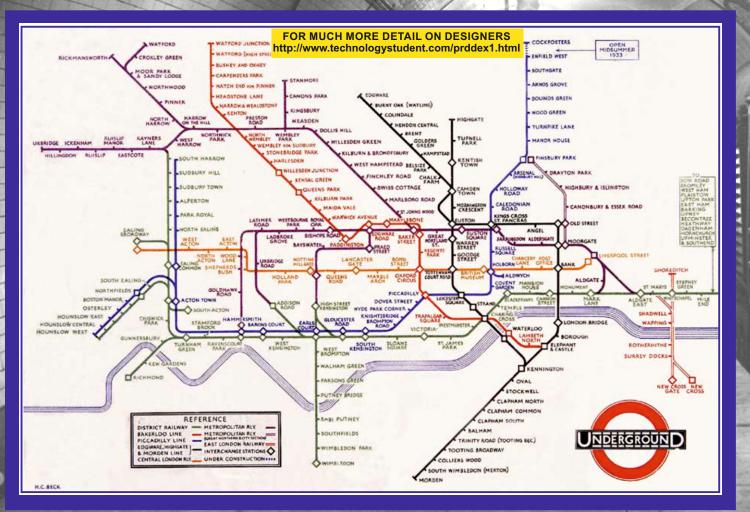
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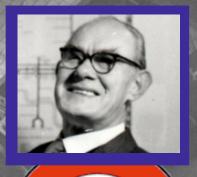


# HARRY BECK (1902 - 1974) - THE LONDON UNDERGROUND MAP



HARRY BECK WAS AN ENGINEERING TECHNICAL DRAFTSMAN. WORKING FOR THE LONDON UNDERGROUND SIGNALS OFFICE. HE DEVELOPED AN INTEREST IN THE WAY RAIL TRANSPORT MAPS WERE GRAPHICALLY PRESENTED. BECK'S ICONIC LONDON UNDERGROUND MAP WAS FIRST PUBLISHED IN 1932. IT WAS VERY WELL RECEIVED BY TRAVELLERS AND COMMUTERS. BECK'S LONDON UNDERGROUND MAP, IS NOW REGARDED AS AN ICONIC DESIGN, AS IT HAS INSPIRED OTHER MAP LAYOUTS THROUGHOUT THE WORLD.







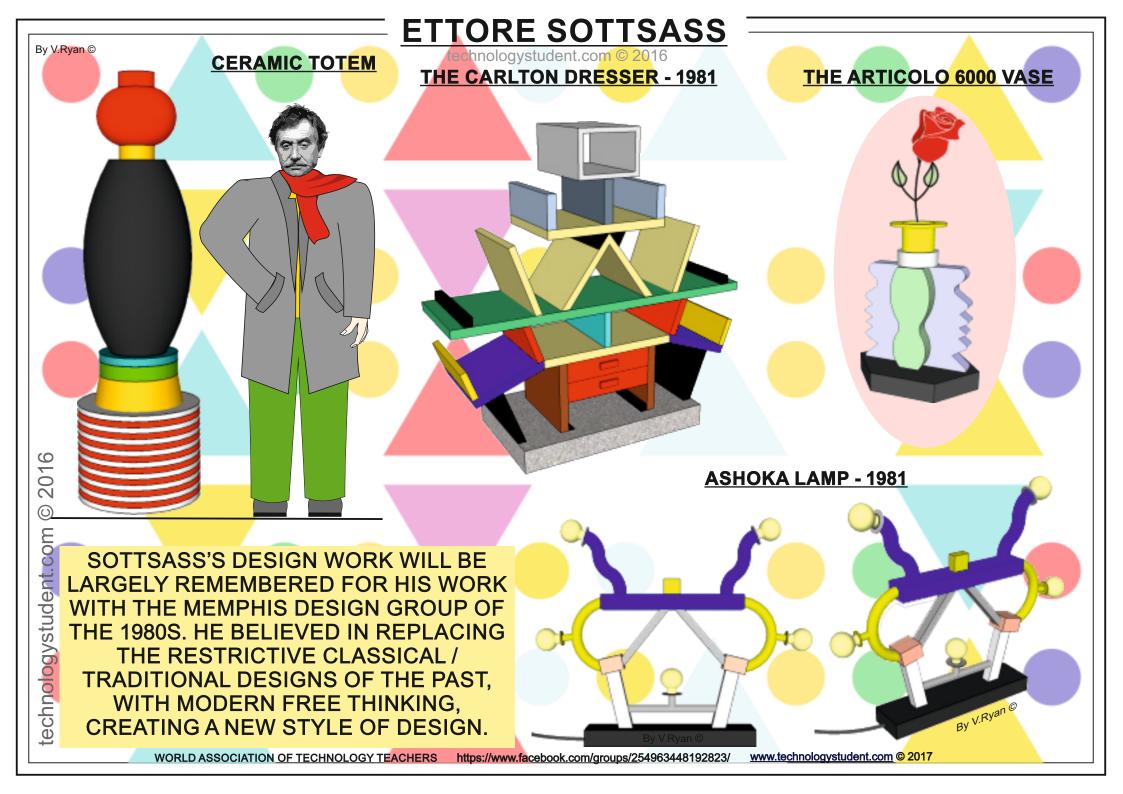
THE INNOVATIVE 'STYLE' OF MAP THAT BECK INTRODUCED, HAS BEEN ADAPTED FOR A VAST RANGE OF DIAGRAMMATIC PRESENTATIONS. IT SET A HIGH BENCHMARK FOR OTHER MAP DESIGNERS TO **FOLLOW. THE MAP PROVIDES** ALL THE NECESSARY INFORMATION REQUIRED BY A TRAVELLER AND NO **UNNECESSARY DETAIL OR DECORATION. IT IS STRICTLY FUNCTIONAL AND YET CAN BE** REGARDED AS PIECE OF ART. REFLECTING A MODERNIST PHILOSOPHY. IT IS **AESTHETICALLY PLEASING.** 

# HARRY BECK AND THE LONDON UNDERGROUND MAP CIATION OF TECHNOLOGY TEACHERS https://www.facebook.com/groups/254963448192823/ www.technologystudent.com © 2018 V.Ryan © 2018

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LINK FOR HELP http://www.technologystudent.com/prddes\_2/beck1.html

1. What was Harry Beck's role at the Londo	on Underground Signals Office?	1 mark
2. How did a typical underground map by F.	.H. Stingemore, differ to a geog	raphical map? 3 marks
3. The map shown opposite were often situated inside trains during the 1920s.		L·N·E·R  CREAT HORTHERN SUBURBAN LINES 15 MILL ROUTE DIAGRAM
Who designed the map? 1 mark  This type of map had a particular name. What was it? 1 mark	WHISTON MATERIAL POPE STATE OF THE POPE STATE OF	EVERT CARRY  NOTIFICATION  NOT
4. Harry Beck did not get paid for his original circumstances that led to the design? 2 n		Vhat were his personal
5. How does Harry Beck's map different from	om the underground maps that o	came before it? <i>4 marks</i>
6. Why is Harry Beck's underground map re	egarded as an iconic design?	3 marks



#### LINK FOR HELP http://www.technologystudent.com/prddes1/ettore1.html

Ettore Sottsass delighted audiences and potential customers alike, by designing items that were unusual, with bright colour schemes, producing imaginary designs of everyday objects.

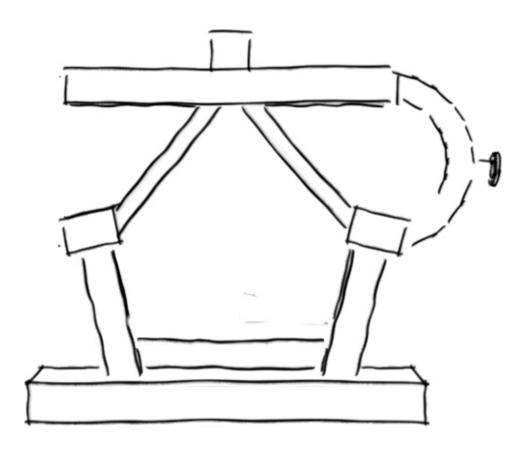
Sottsass believed in design being different and not following tradition. To Sottsass, design was a continuation of fashion. His designs were usually received with shock followed by controversy.

A good example of this is the 'Ashoka' Lamp (1981, named after an Indian Emporer). Sottsass spent time in India in the early 1960s and this experience influenced some of his designs.

A good example is the lamp partially drawn below.

Name the lamp: 1 <u>mark</u>	
n what year was the lamp made? 1 mark	
Vho was the lamp named after? 1 mark	

Complete the drawing of the lamp. Include colour and add the measurement for the height. 6 marks



#### LINK FOR HELP http://www.technologystudent.com/prddes1/ettore2.html



Ceramic Totem designed by Ettore Sottsass, is seen opposite.

Sketch an outline of an average sized adult alongside it, to indicate its height. **2** *marks* 

Add the height dimension to the totem. 1 mark

Add colour to the ceramic totem. You must add the original colours, in the correct places.

3 marks

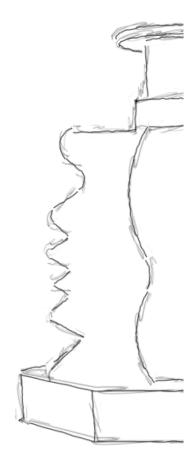
What was the totem coated with and what was its affect? 2 marks

Complete the sketch of the vase designed by Ettore Sottsass. 2 marks

Add the correct colours. 2 marks

What is the name of the vase? 1 mark

Add the height dimension of the vase. **1** *mark* 



## THE CARLTON DRESSER - By Ettore Sottsass - 1981

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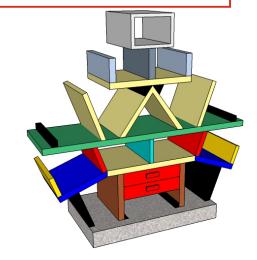
#### LINK FOR HELP http://www.technologystudent.com/prddes1/memphis3.html

In 1981 Ettore Sottsass presented his Carlton Dresser.

Look carefully at the image. In what way does the Carlton Dresser share each of the Memphis Design Principles written below?

The first two principles have sample answers already written out.

Complete answers 3 to 9. 6 marks



#### ANSWERS

#### MEMPHIS DESIGN PRINCIPLES

- 1. Emphasis placed on aesthetics, shape and form.
- 2. Designs often influenced by fashionable trends.
- 3. Styles from different ages/periods, mixed to form a design/product.
  - 4. Often 'Memphis' designs are controversial.
- 5. Use of common, everyday materials such as MDF, glass, steel and stone. This principle was shared with the Bauhaus and Modernism.
- 6. Often materials used that are not normally not associated with the product. (E.G. the Etruscan Chair designed by Danny Lane 1984, manufactured from glass).
  - 7. Often Memphis designs were 'One Offs' or for very small scale production.
- 8. A combination of craft skills often displayed. For instance, accurate engineering combined with high quality individual craft work.
- 9. Memphis designs can be regarded as works of art, rather than functional objects.

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1. This design relies on visual impact, as seen in
the geometrical angles and geometrical shapes.
2. In the 1980s, there was a trend towards
keeping designs simple. The Carlton Dresser
is clearly based on this principle.